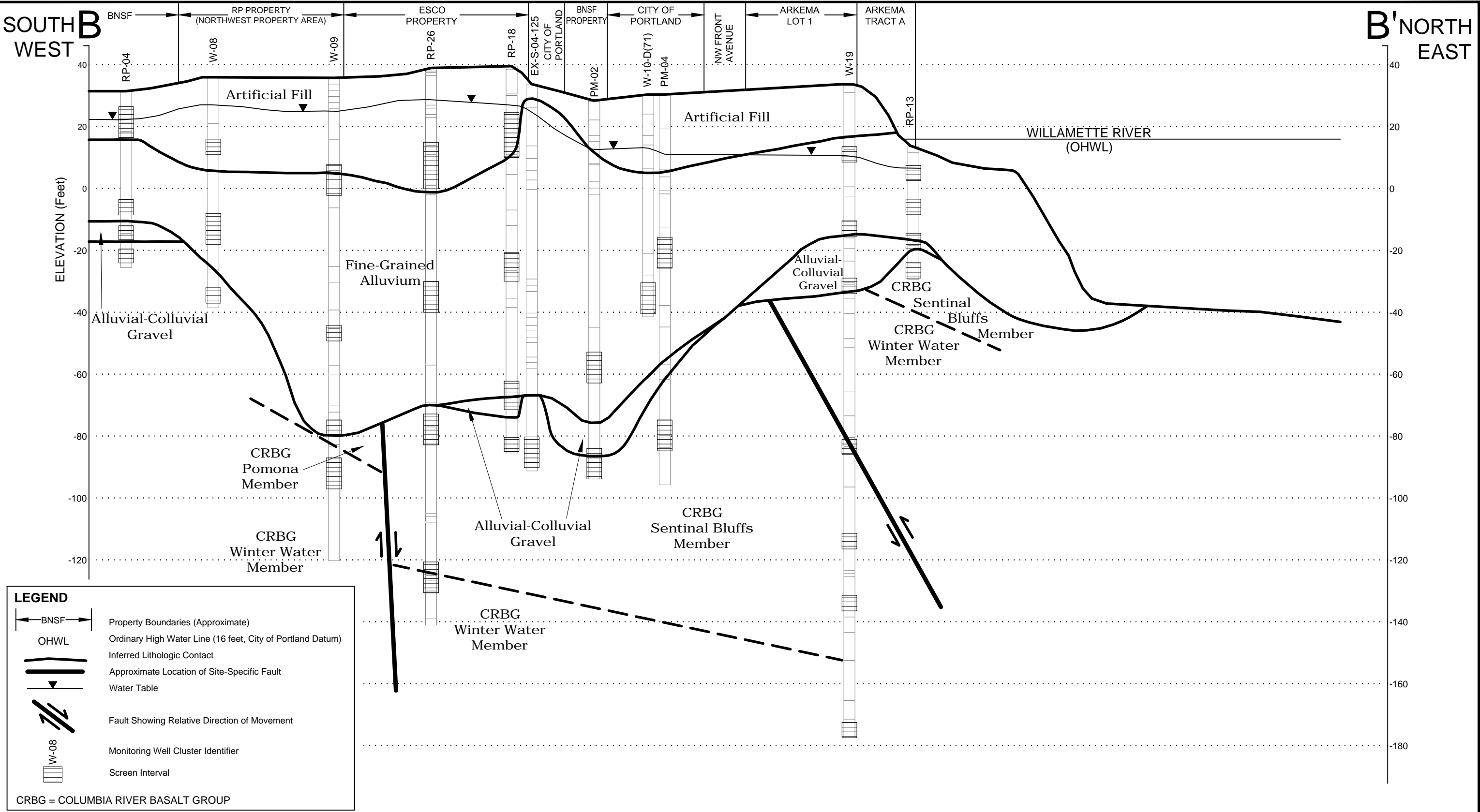
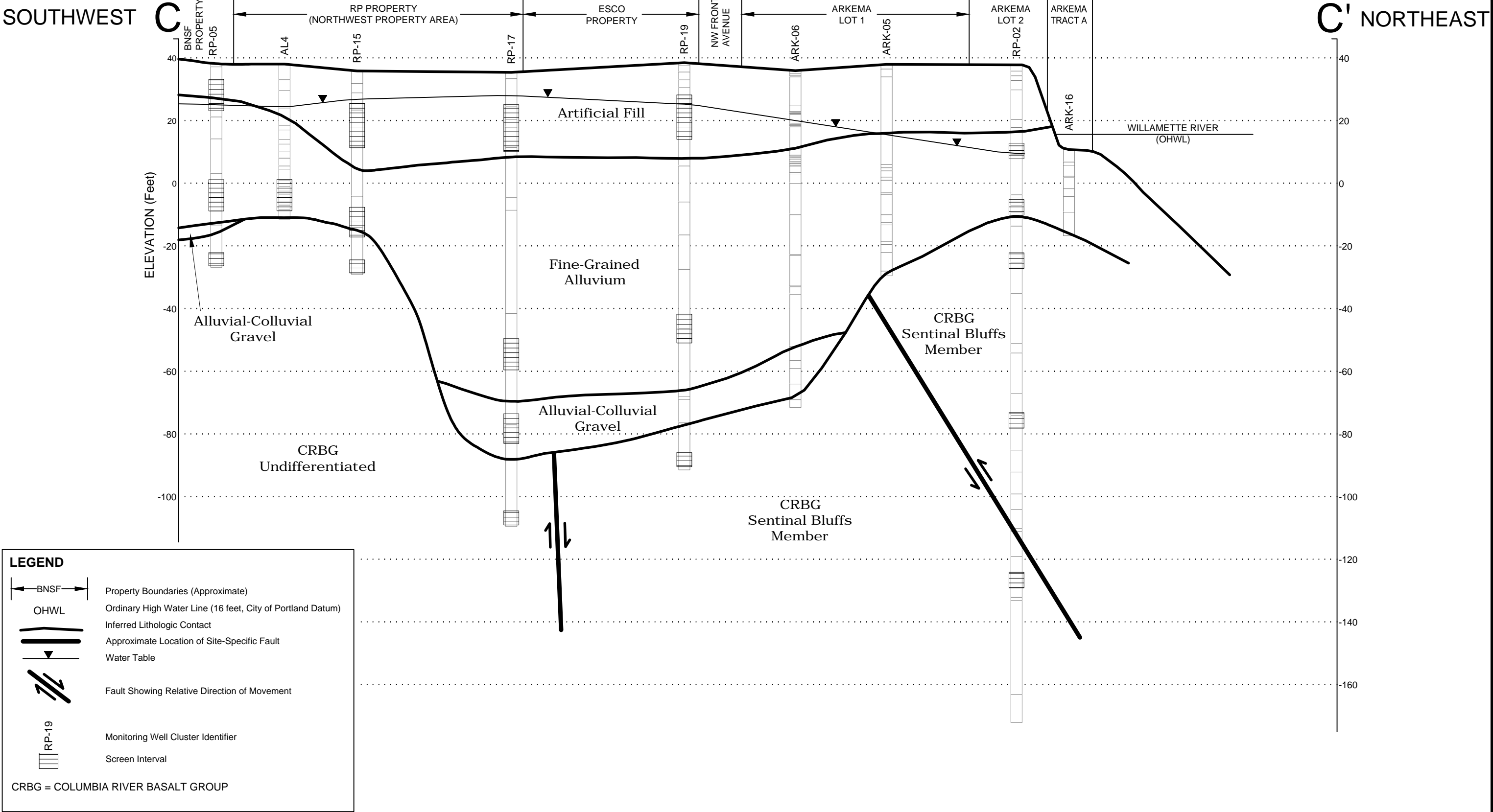


<p>Notes:</p> <p>Stratigraphy between depicted borings is interpreted from additional borings not shown on this cross section.</p> <p>Stratigraphy at borings shown on cross section may incorporate observations from multiple borings at a single well cluster.</p>			DRAWN BY: BRJ	TITLE: FIGURE 6-F GEOLOGIC CROSS SECTION A-A'
			QC BY: DMF / CJ	
			DATE DRAWN: OCTOBER 2010	
			VERTICAL DATUM: City of Portland	
			PROJECT NO: 061M107030.0202.001	REPORT: RI / SCE REPORT RP - PORTLAND SITE

Earth & Environmental
7376 S.W. Durham Road
Portland, OR. U.S.A. 97224



<p>Notes:</p> <p>Stratigraphy between depicted borings is interpreted from additional borings not shown on this cross section.</p> <p>Stratigraphy at borings shown on cross section may incorporate observations from multiple borings at a single well cluster.</p>			DRAWN BY: BRJ	<p>FIGURE 6-G</p> <p>GEOLOGIC CROSS SECTION B-B'</p>
			QC BY: DMF / CJ	
			DATE DRAWN: OCTOBER 2010	
			VERTICAL DATUM: City of Portland	
			PROJECT NO: 061M107030.0202.001	
<p>Earth & Environmental 7376 S.W. Durham Road Portland, OR. U.S.A. 97224</p>			REPORT:	<p>RI / SCE REPORT</p> <p>RP - PORTLAND SITE</p>



Notes:

Stratigraphy between depicted borings is interpreted from additional borings not shown on this cross section.

Stratigraphy at borings shown on cross section may incorporate observations from multiple borings at a single well cluster.

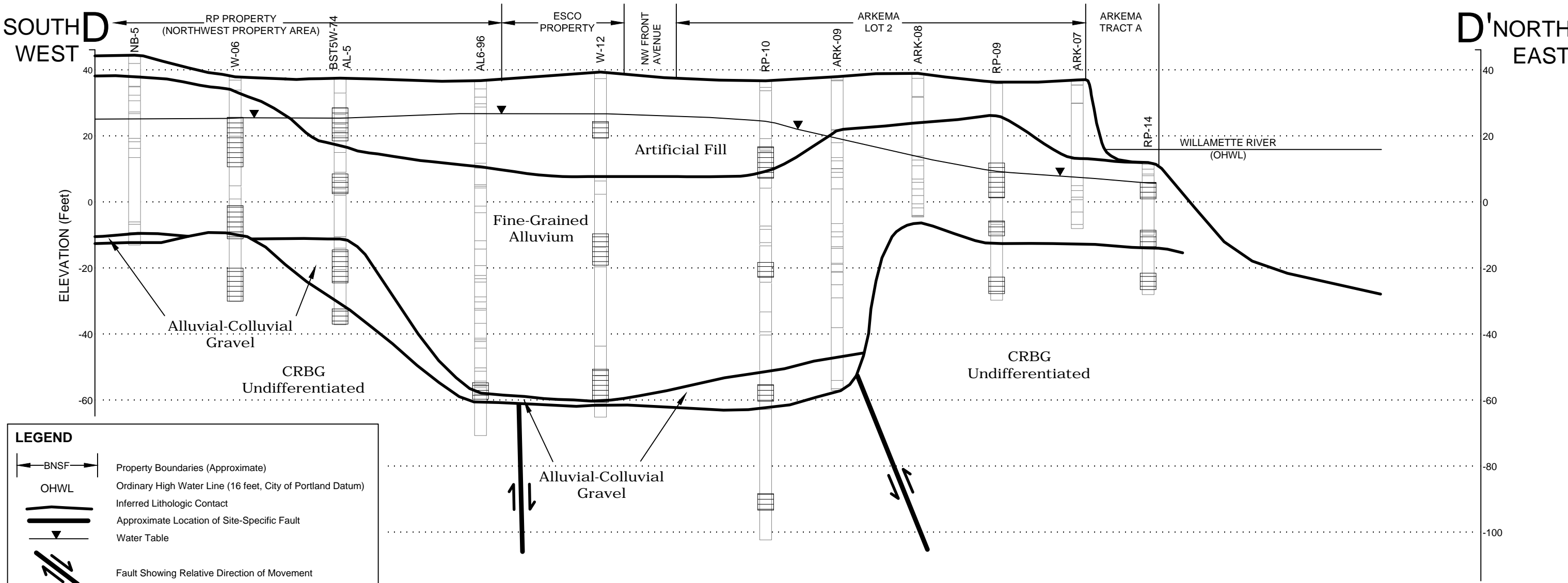
0' 125' 250' 375'

amec

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7376 S.W. Durham Road
Portland, OR. U.S.A. 97224

DRAWN BY:	BRJ
QC BY:	DMF / CJ
DATE DRAWN:	OCTOBER 2010
VERTICAL DATUM:	City of Portland
PROJECT NO:	061M107030.0202.001

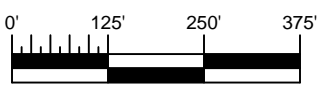
TITLE:	FIGURE 6-H GEOLOGIC CROSS SECTION C-C'
REPORT:	RI / SCE REPORT RP - PORTLAND SITE




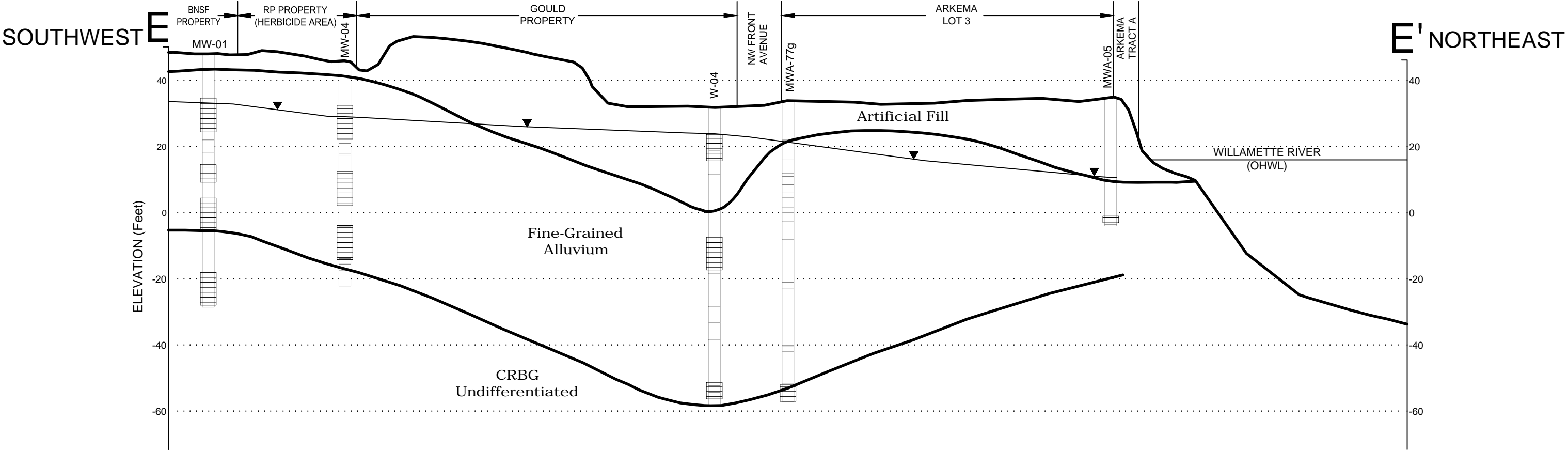
Notes:

Stratigraphy between depicted borings is interpreted from additional borings not shown on this cross section.

Stratigraphy at borings shown on cross section may incorporate observations from multiple borings at a single well cluster.



 Earth & Environmental 7376 S.W. Durham Road Portland, OR. U.S.A. 97224	DRAWN BY: BRJ	TITLE: FIGURE 6-I GEOLOGIC CROSS SECTION D-D'
	QC BY: DMF / CJ	
	DATE DRAWN: OCTOBER 2010	
	VERTICAL DATUM: City of Portland	
	PROJECT NO: 061M107030.0202.001	REPORT: RI / SCE REPORT RP - PORTLAND SITE



LEGEND

Property Boundaries (Approximate)

Ordinary High Water Line (16 feet, City of Portland Datum)

Inferred Lithologic Contact

Approximate Location of Site-Specific Fault

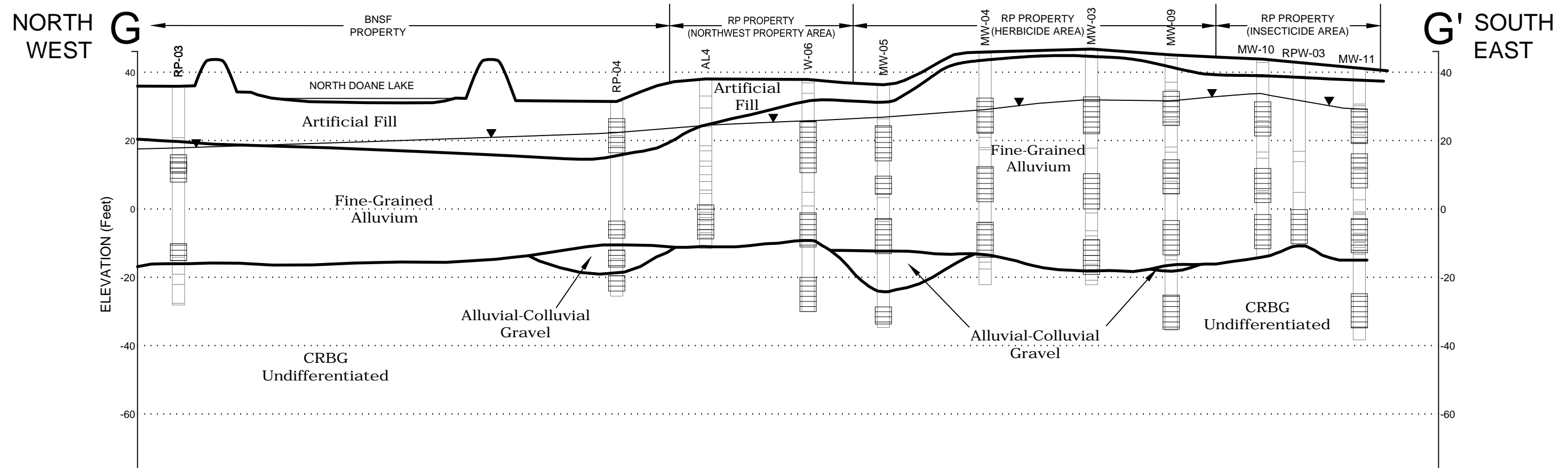
Water Table

Monitoring Well Cluster Identifier

Screen Interval

CRBG = COLUMBIA RIVER BASALT GROUP

<div>Notes:</div> <div>Stratigraphy between depicted borings is interpreted from additional borings not shown on this cross section.</div> <div>Stratigraphy at borings shown on cross section may incorporate observations from multiple borings at a single well cluster.</div>		<div>Earth & Environmental 7376 S.W. Durham Road Portland, OR. U.S.A. 97224</div>	<div>DRAWN BY: BRJ</div>	<div>TITLE:</div> <div>FIGURE 6-J GEOLOGIC CROSS SECTION E-E'</div> <div>REPORT:</div> <div>RI / SCE REPORT RP - PORTLAND SITE</div>
			<div>QC BY: DMF / C.J</div>	
			<div>DATE DRAWN: OCTOBER 2010</div>	
			<div>VERTICAL DATUM: City of Portland</div>	
			<div>PROJECT NO: 061M107030.0202.001</div>	



LEGEND

BNSF

Property Boundaries (Approximate)

OHWL

Ordinary High Water Line (16 feet, City of Portland Datum)

Inferred Lithologic Contact

Approximate Location of Site-Specific Fault

Water Table

RP-04

Monitoring Well Cluster Identifier

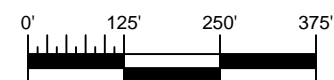
Screen Interval

CRBG = COLUMBIA RIVER BASALT GROUP

Notes:

Stratigraphy between depicted borings is interpreted from additional borings not shown on this cross section.

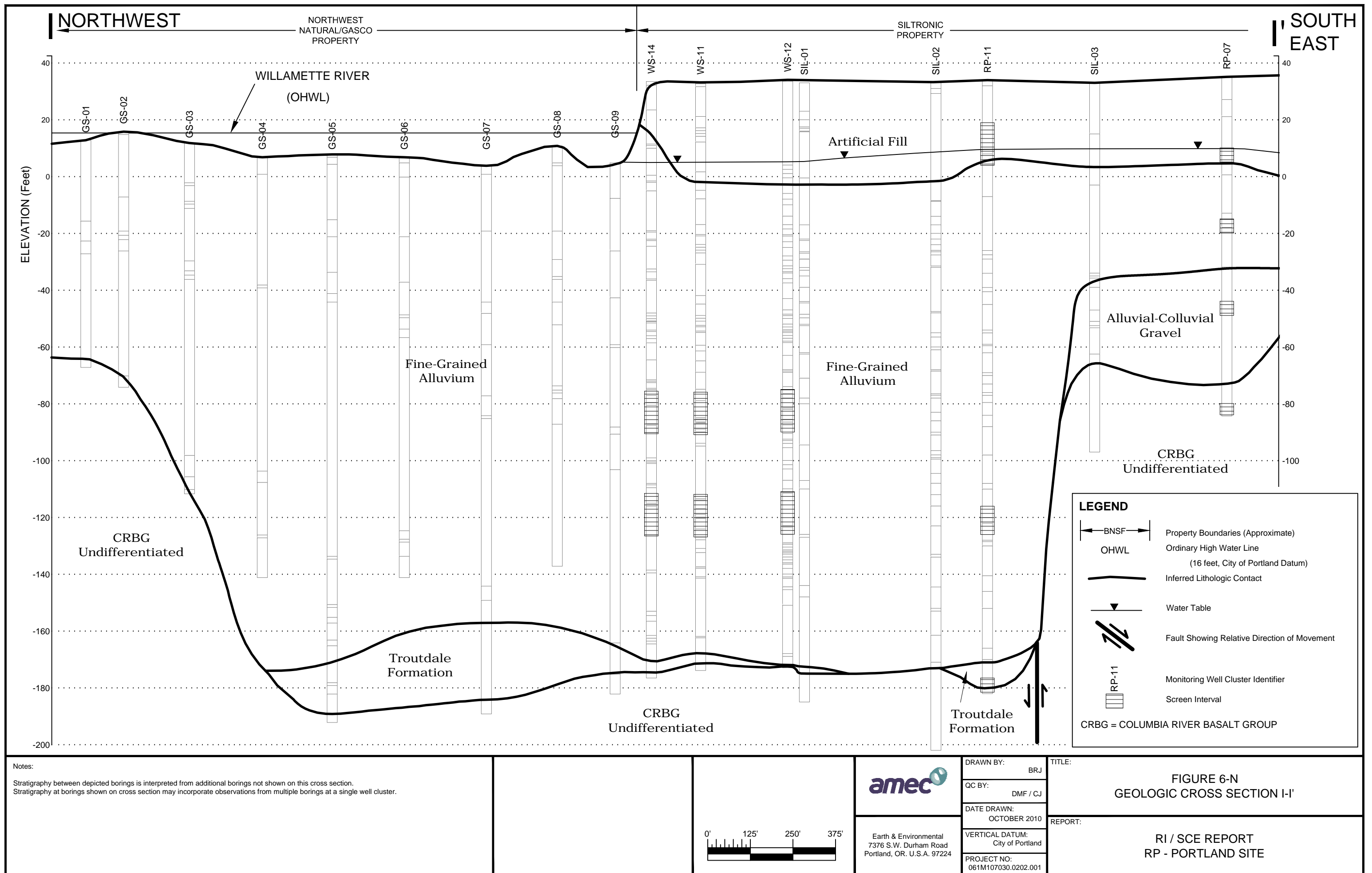
Stratigraphy at borings shown on cross section may incorporate observations from multiple borings at a single well cluster.

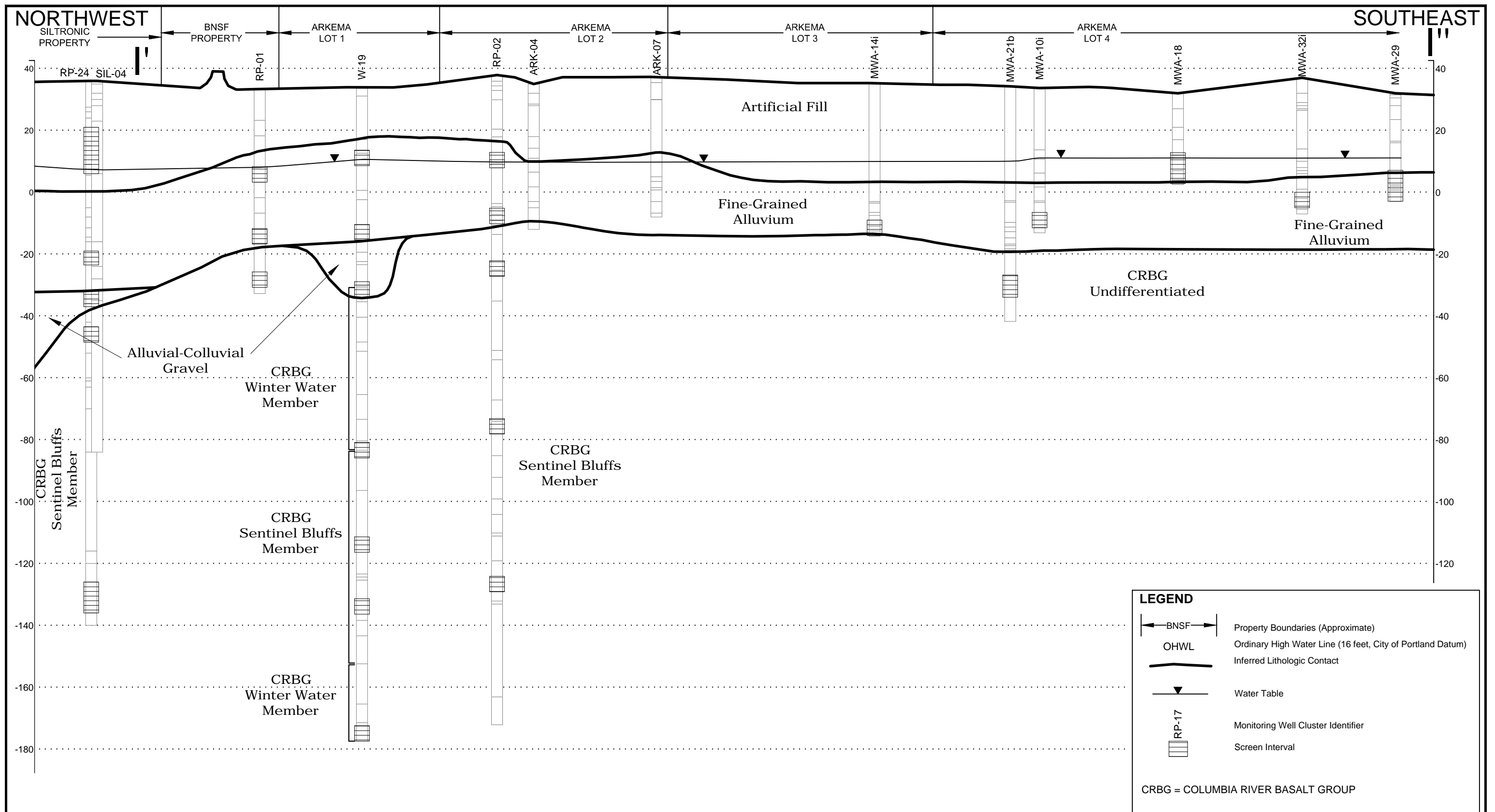


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DRAWN BY:	BRJ
QC BY:	DMF / CJ
DATE DRAWN:	OCTOBER 2010
VERTICAL DATUM:	City of Portland
PROJECT NO:	061M107030.0202.001

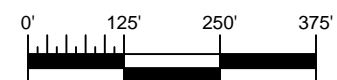
TITLE:	FIGURE 6-L GEOLOGIC CROSS SECTION G-G'
REPORT:	RI / SCE REPORT RP - PORTLAND SITE





Notes:

Stratigraphy between depicted borings is interpreted from additional borings not shown on this cross section.
Stratigraphy at borings shown on cross section may incorporate observations from multiple borings at a single well cluster.



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Portland, OR. U.S.A. 97224

DRAWN BY:	BRJ
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QC BY: DMF / CJ

DATE DRAWN:
OCTOBER 2010

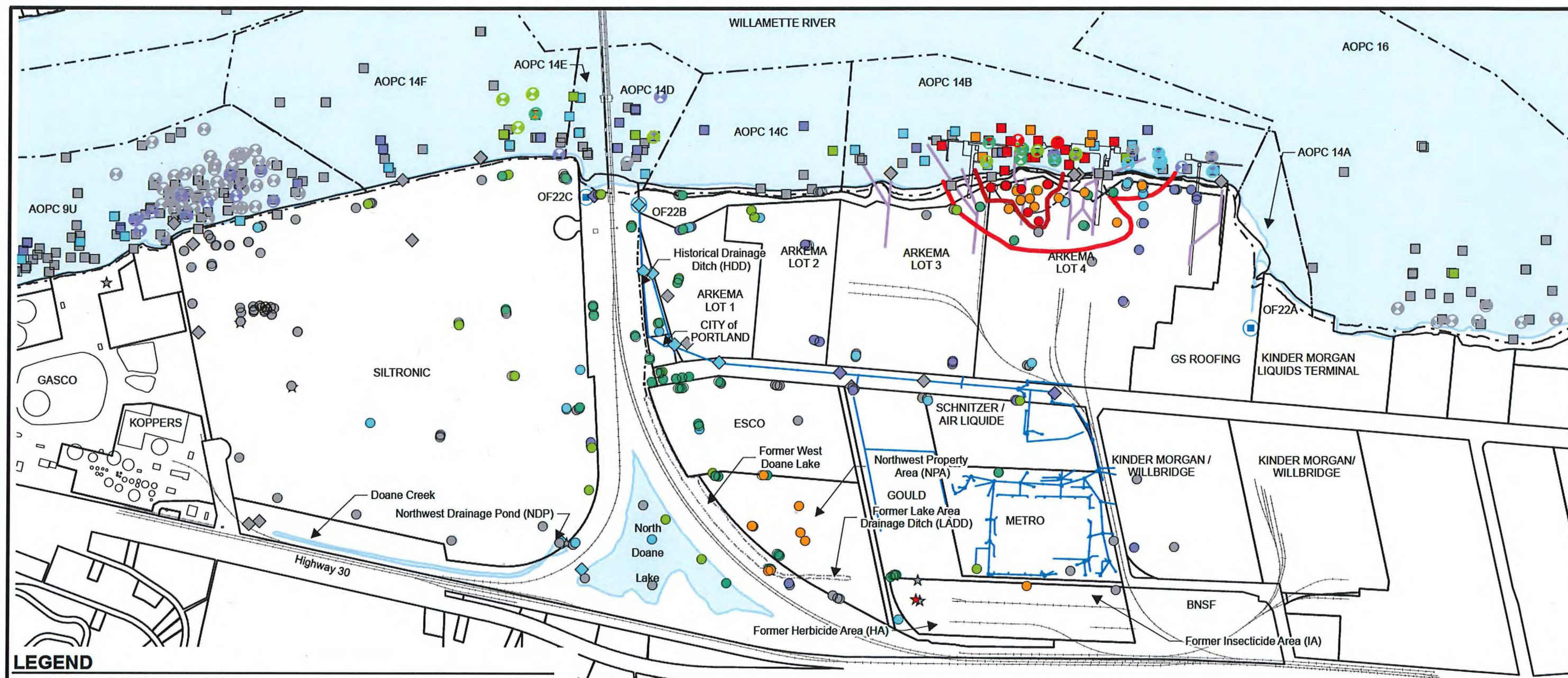
VERTICAL DATUM: City of Portland
PROJECT NO: 061M107030.0202.001

TITLE:	
--------	--

FIGURE 6-O
GEOLOGIC CROSS SECTION I'-I''

REPORT:

RI / SCE REPORT
RP - PORTLAND SITE



LEGEND

- General extent of VOCs in Groundwater
Arkema Property greater than 10,000 ug/L
- General extent of VOCs in Shallow Zone Groundwater
Arkema Property greater than 50 ug/L (see note 9)
- Storm line network that drains to OF-22B
- River Outfalls
- River Outfalls 22A-B-C
- LWG AOPC Boundary (June 2010)

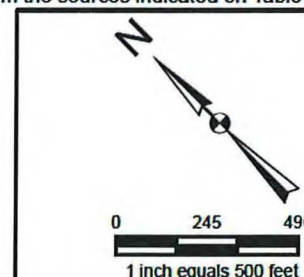
Concentration Scale	
Water (ug/L)	Sediment (ug/kg)
ND	ND
<ND - 1.0	<ND - 1.0
>1.0 - 10.0	>1.0 - 10.0
>10.0 - 50.0 (SLV)	>10.0 - 100.0
>50.0 - 1,000.0	>100.0 - 239.0 (SLV)
>1,000.0 - 10,000.0	>239.0 - 10,000.0
>10,000.0	>1,000.0

- Sample Type Symbol
(See Concentration Scale for Color Coding)
- ★ NAPL Sample Locations
 - River Sediment Sample Locations
SLV = 239 ug/kg
 - Groundwater Sample Locations
SLV = 50 ug/L
 - Transition Zone Water Sample Locations
 - ◆ Stormwater Sample Location

NOTES

- 1.) Non-detect (ND) values include all reported NDs regardless of the detection limit. This includes samples with elevated detection limits resulting from analytical interference such as high concentrations of other compounds. Therefore, ND values do not necessarily indicate the absence of a constituent at a given location. This is especially true for sediment samples along some sections of the Riverbank affected by non-aqueous phase liquid and/or in close proximity to highly-impacted source areas.
- 2.) Concentrations shown reflect the highest concentration at any depth for that sample location.
- 3.) This figure presents the following data: the most recent annual maximum value between 2007 and 2010 for groundwater monitoring wells sampled by Rhone-Poulenc; NDL groundwater data collected by Rhone-Poulenc in 2003, and the most recent annual maximum value between 2006 to 2010 for groundwater monitoring wells sampled by Arkema and Siltronic.
- 4.) AOPC 14 has been divided into AOPC 14A through AOPC 14F by Golder Associates for the purpose of data evaluation.
- 5.) Screening Level Values (SLV) are from the sources indicated on Table 8-3.

- 6.) The extent of groundwater detections are not necessarily attributable to historical Rhone-Poulenc operations and are the result of multiple sources. Areas of COI detections attributable to 3rd party sources may be included on this figure. Appendix L of the Rhone Poulenc Draft RI/SCE report (AMEC, 2010) documents known and potential 3rd party sources.
- 7.) The extents of impacts above SLVs shown are approximate and should not be interpreted as exact indicators of groundwater quality at locations between wells. Historical data not presented on this figure may have been used to illustrate the impact extent.
- 8.) The illustrated extent of detections above SLVs in groundwater are based on wells that are located along a groundwater flow pathway (i.e. wells with isolated results above the SLV are excluded).
- 9.) Extent of VOC impacts on Arkema property based on the extent of chlorobenzene depicted on Figures 6-1 and 6-2 of the Upland Investigation Report Lots 3 & 4 and Tract A - Revision 1, prepared by ERM dated December 2005. Arkema has not determined the extent of deep groundwater VOC impacts.



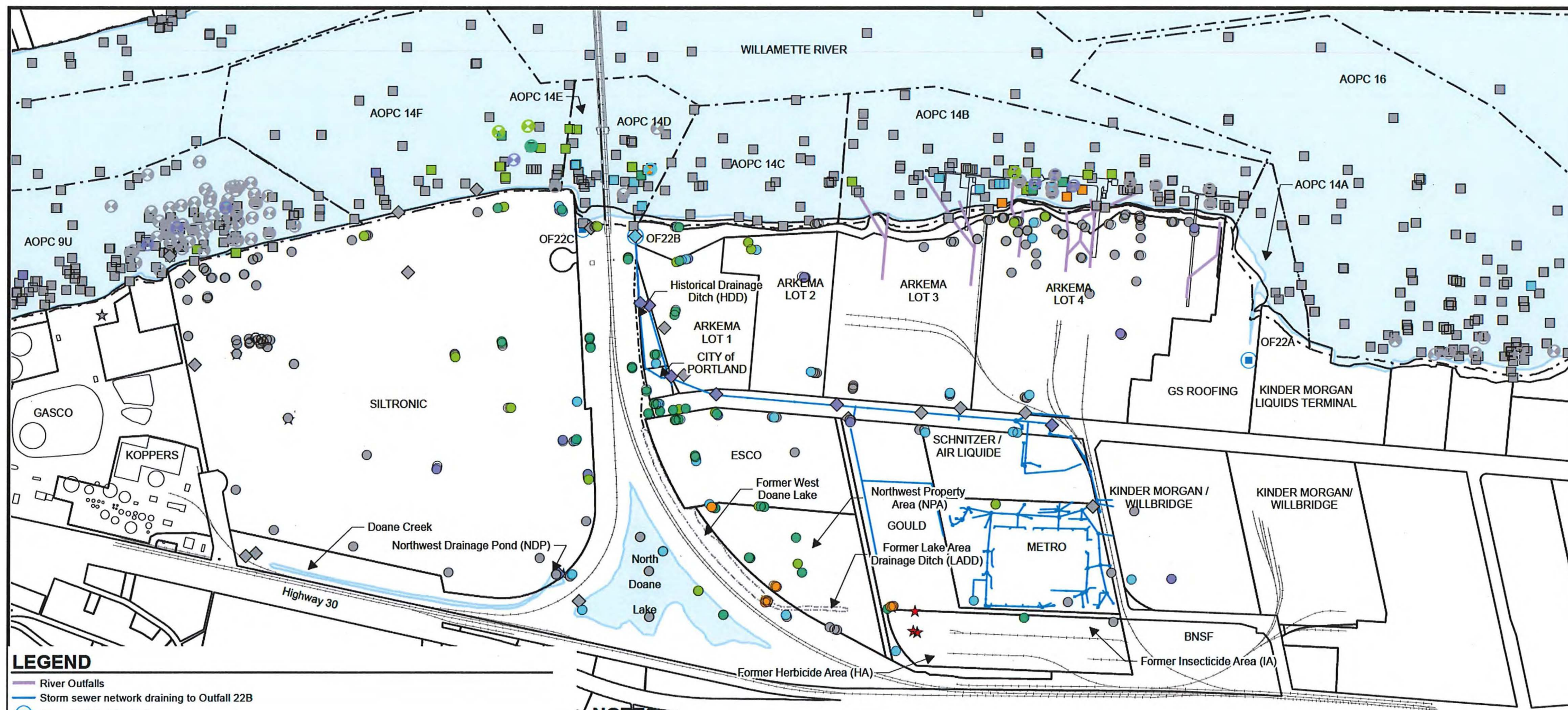
Map Projection: North
American Datum (NAD) 1983
Oregon State Plane North in
feet

DATE	11/6/2012
DESIGN	RWB
GIS	CDS
CHECKED	
REVIEW	

FIGURE S8.3-7
Chlorobenzene in Groundwater, NAPL,
Stormwater/Non-stormwater Transition Zone and
River Sediments

Draft Supplemental Section 8
RI / SCE Report
RP - Portland Site

CB_GW-Final



LEGEND

- River Outfalls
- Storm sewer network draining to Outfall 22B
- River Outfalls 22A-B-C
- LWG AOPC Boundary (June 2010)

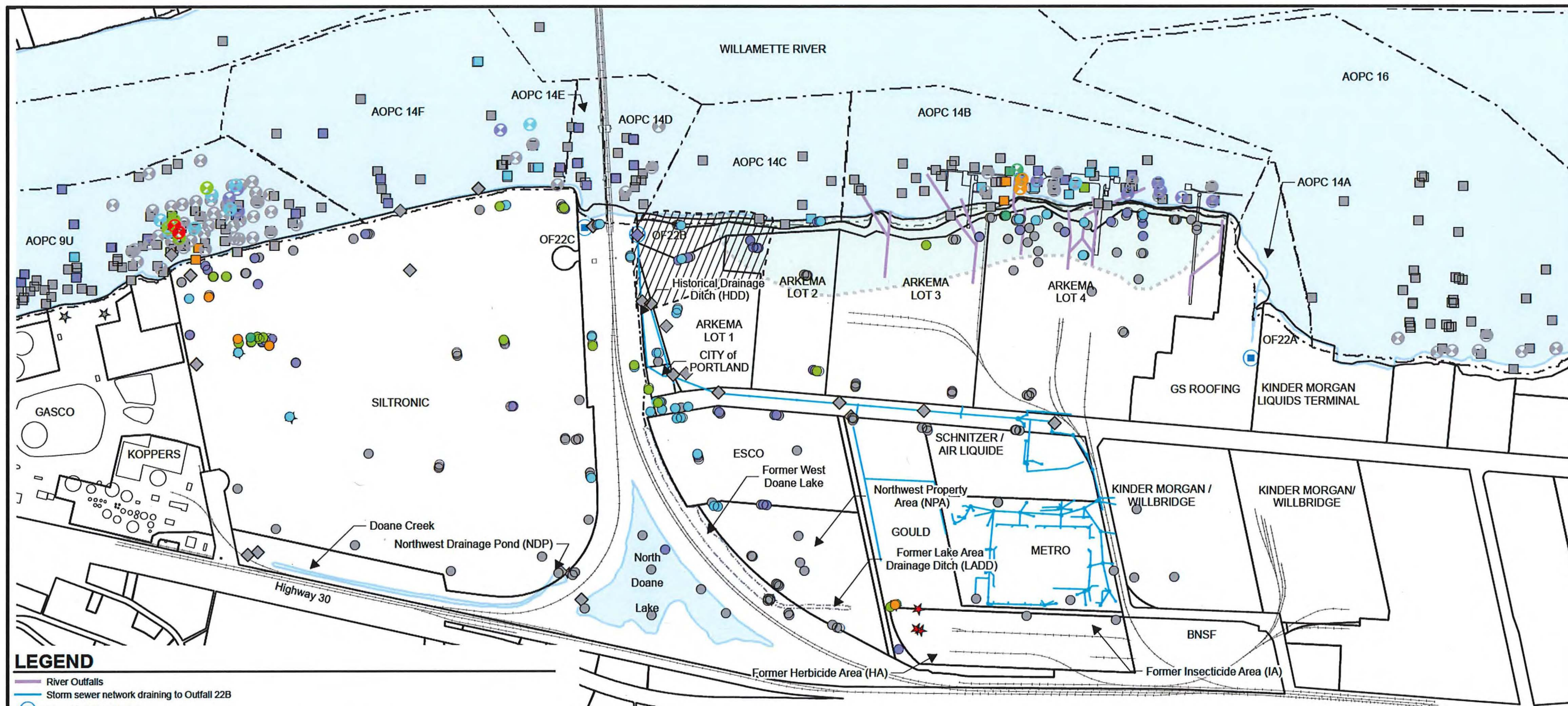
Concentration Scale		Sample Type Symbol	
Water (ug/L)	Sediment (ug/kg)	(See Concentration Scale for Color Coding)	
ND	ND	★ NAPL Sample Locations	
<ND - 0.43 (SLV)	<ND - 1.0	■ River Sediment Sample Locations SLV = 300 ug/kg	
>1.0 - 10.0	>1.0 - 10.0	● Groundwater Sample Locations SLV = 0.43 ug/L	
>10.0 - 100.0	>10.0 - 100.0	● Transition Zone Water Sample Locations	
>100.0 - 1,000.0	>100.0 - 300.0 (SLV)	◆ Stormwater Sample Location	
>1,000.0 - 10,000.0	>300.0 - 10,000.0		
>10,000.0	>10,000.0		

NOTES

- 1.) Non-detect (ND) values include all reported NDs regardless of the detection limit. This includes samples with elevated detection limits resulting from analytical interference such as high concentrations of other compounds. Therefore, ND values do not necessarily indicate the absence of a constituent at a given location. This is especially true for sediment samples along some sections of the Riverbank affected by non-aqueous phase liquid and/or in close proximity to highly-impacted source areas.
- 2.) Concentrations shown reflect the highest concentration at any depth for that sample location.
- 3.) This figure presents the following data: the most recent annual maximum value between 2007 and 2010 for groundwater monitoring wells sampled by Rhone-Poulenc; NDL groundwater data collected by Rhone-Poulenc in 2003, and the most recent annual maximum value between 2006 to 2010 for groundwater monitoring wells sampled by Arkema and Siltronic.

- 4.) AOPC 14 has been divided into AOPC 14A through AOPC 14F by Golder Associates for the purpose of data evaluation.
- 5.) Screening Level Values (SLV) are from the sources indicated on Table 8-3.
- 6.) The groundwater detections presented are not necessarily attributable to historical Rhone-Poulenc operations and are the result of multiple sources. Areas of COI detections attributable to 3rd party sources may be included on this figure. Appendix L of the Rhone Poulenc Draft RI/SCE report (AMEC, 2010) documents known and potential 3rd party sources.

<p>Manchester, New Hampshire</p> <p>Map Projection: North American Datum (NAD) 1983 Oregon State Plane North in feet</p>	DATE	11/5/2012	<p>FIGURE S8.3-9</p> <p>1,4-Dichlorobenzene in Groundwater, NAPL, Stormwater/Non-stormwater, Transition Zone and River Sediments</p> <p>Draft Supplemental Section 8</p> <p>RI / SCE Report</p> <p>RP - Portland Site</p>
	DESIGN	RWB	
	GIS	CDS	
	CHECKED		
<p>0 250 500</p> <p>1 inch equals 500 feet</p>	REVIEW		14DCB_GW-Final



LEGEND

- River Outfalls
- Storm sewer network draining to Outfall 22B
- River Outfalls 22A-B-C
- Approximate minimum extent of ARKEMA related PCE or TCE groundwater impacts.
- Potential area of overlapping constituents beneath Arkema property

Concentration Scale

Water (ug/L)	Sediment (ug/kg)
ND	ND
<ND - 2.0 (SLV)	<ND - 1.0
>2.0 - 10.0	>1.0 - 10.0
>10.0 - 100.0	>10.0 - 100.0
>100.0 - 1,000.0	>100.0 - 140.0 (SLV)
>1,000.0 - 10,000.0	>140.0 - 10,000.0
>10,000.0	>10,000.0

Sample Type Symbol

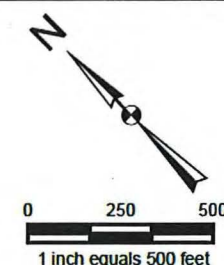
(See Concentration Scale for Color Coding)

- ★ NAPL Sample Locations
- River Sediment Sample Locations
SLV = 140.0 ug/kg
- Groundwater Sample Locations
SLV = 2.0 ug/L
- Transition Zone Water Sample Locations
- ◆ Stormwater Sample Location

NOTES

- 1.) Non-detect (ND) values include all reported NDs regardless of the detection limit. This includes samples with elevated detection limits resulting from analytical interference such as high concentrations of other compounds. Therefore, ND values do not necessarily indicate the absence of a constituent at a given location. This is especially true for sediment samples along some sections of the Riverbank affected by non-aqueous phase liquid and/or in close proximity to highly-impacted source areas.
- 2.) Concentrations shown reflect the highest concentration at any depth for that sample location.
- 3.) This figure presents the following data: the most recent annual maximum value between 2007 and 2010 for groundwater monitoring wells sampled by Rhone-Poulenc; NDL groundwater data collected by Rhone-Poulenc in 2003, and the most recent annual maximum value between 2006 to 2010 for groundwater monitoring wells sampled by Arkema and Siltronic

- 4.) AOPC 14 has been divided into AOPC 14A through AOPC 14F by Golder Associates for the purpose of data evaluation.
- 5.) Screening Level Values (SLV) are from the sources indicated on Table 8-3.
- 6.) The groundwater detections presented are not necessarily attributable to historical Rhone-Poulenc operations and are the result of multiple sources. Areas of COI detections attributable to 3rd party sources may be included on this figure. Appendix L of the Rhone Poulenc Draft RI/SCE report (AMEC, 2010) documents known and potential 3rd party sources.



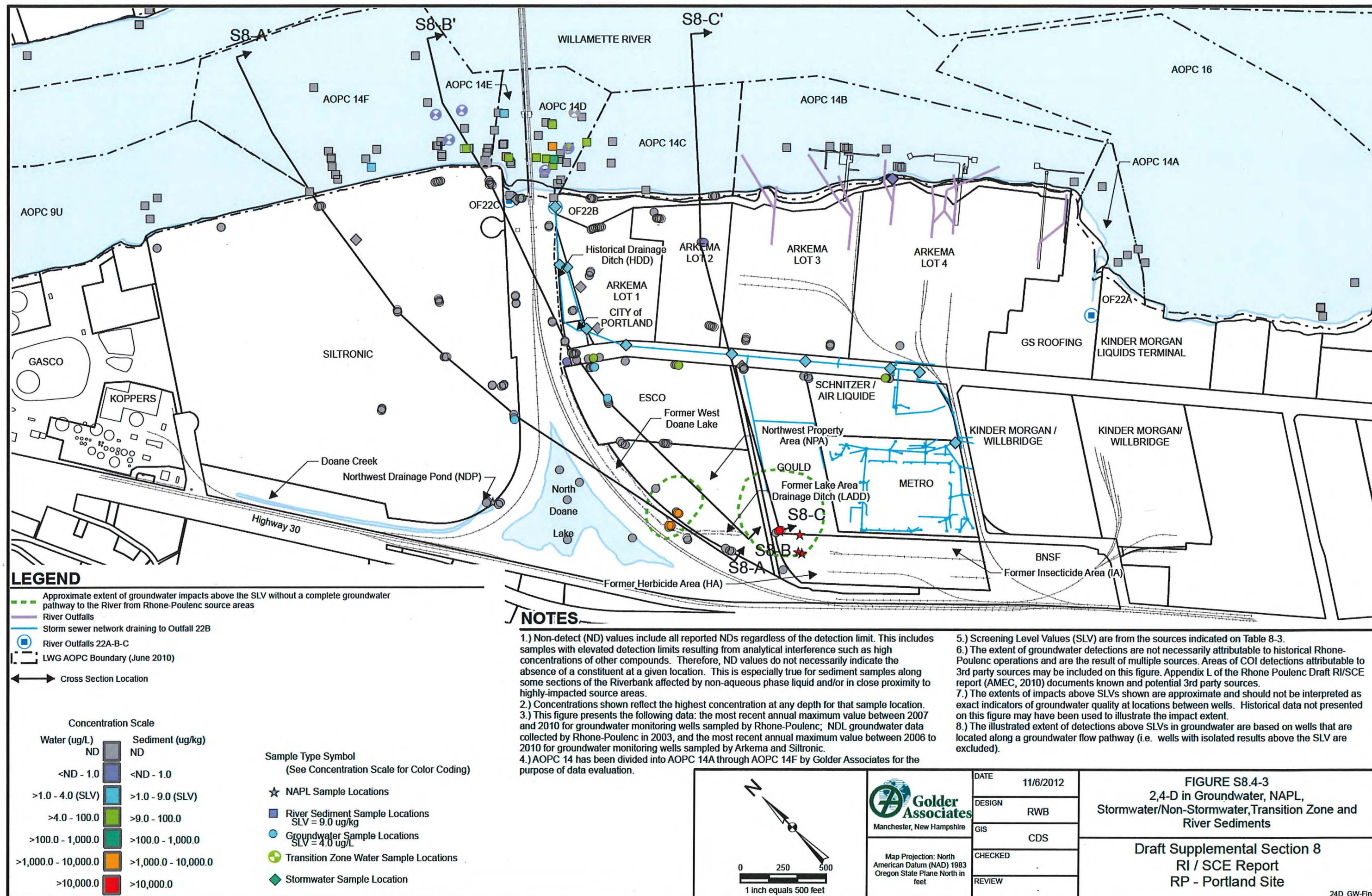
Map Projection: North American Datum (NAD) 1983 Oregon State Plane North in feet

DATE	11/5/2012
DESIGN	RWB
GIS	CDS
CHECKED	
REVIEW	

FIGURE S8.3-11
Trichloroethene in Groundwater, NAPL,
Stormwater/Non-stormwater, Transition Zone and
River Sediments

Draft Supplemental Section 8
RI / SCE Report
RP - Portland Site

TCE_GW-Fina



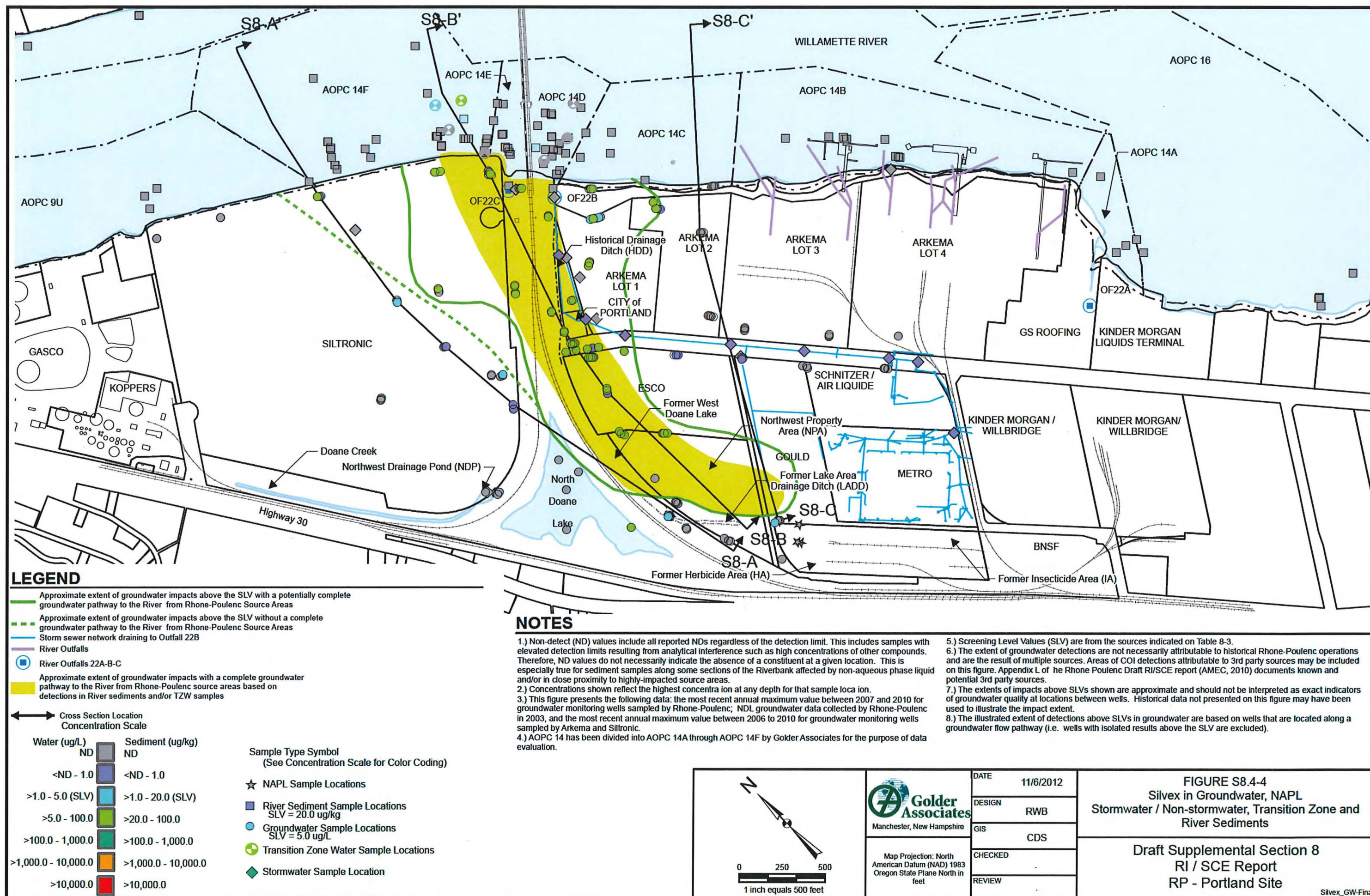
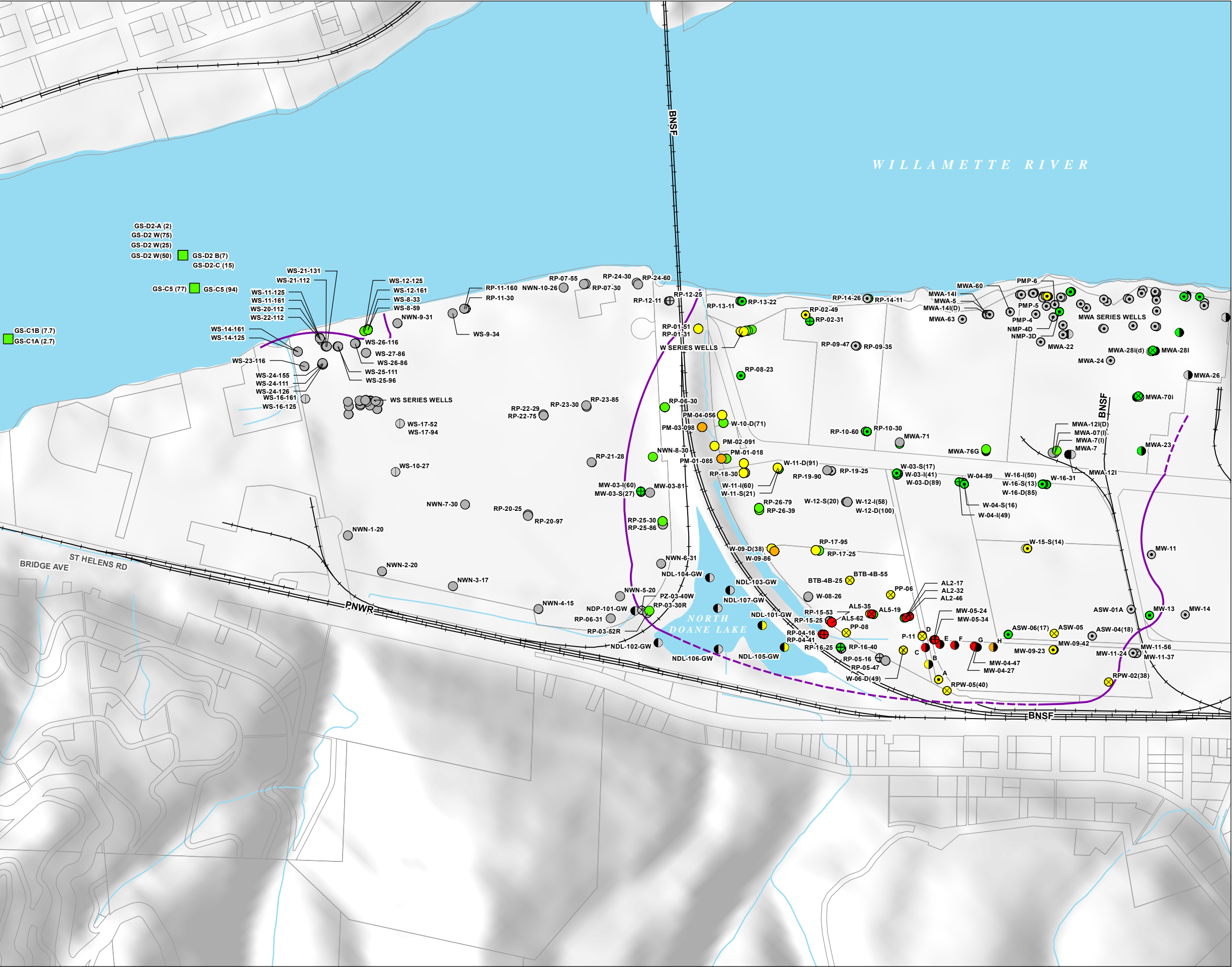


FIGURE 25j
1,2-Dichlorobenzene Results
in Groundwater, within Fill and Fine-
Grained Alluvium - 2002, 2003, 2006 to 2010
Rhone Poulenc



LEGEND

Sample Year

- 2010
- ⊙ 2009
- ⊕ 2008
- ⊗ 2007
- ⊗ 2006
- 2003
- 2002

Reconnaissance

1,2-Dichlorobenzene Results (ug/L)

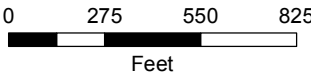
- < 14^x
- > 14 - 700^{xx}
- > 700 - 1,400^{xxx}
- > 1,400
- Non Detect
- Extent of 1,2-Dichlorobenzene (dashed where inferred)

All Other Features

- ⊕ Tax Lot
- Railroad
- Waterbody
- Watercourse

NOTES:

ug/L: microgram per liter.
The concentration for the most recent year sampled is shown. Within that year, the highest detected concentration is shown.
^x 14 ug/L is the screening level value for groundwater presented in the SS8 report.
^{xx} 700 ug/L is the approximately 0.5% of the pure phase solubility of 1,2-Dichlorobenzene in water.
^{xxx} 1,400 ug/L is the approximately 1% of the pure phase solubility of 1,2-Dichlorobenzene in water.



MAP NOTES:

Date: March 17, 2015
Data Sources: Rhone Poulenc, METRO
Reference: AMEC Rhone Poulenc Access Database for Groundwater Analytical Data.



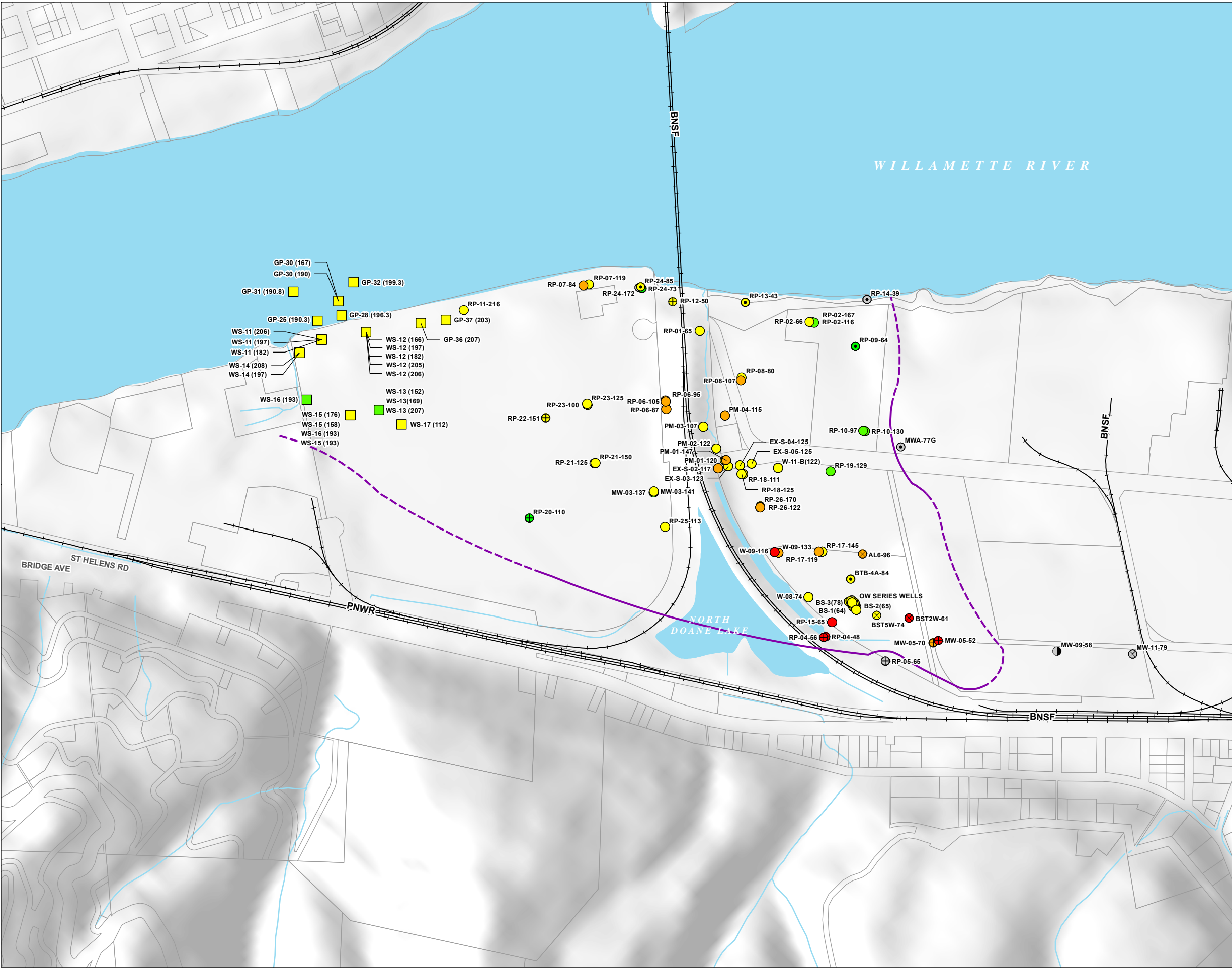


FIGURE 25k
1,2-Dichlorobenzene Results
in Groundwater, within Gravel
and Basalt - 2002, 2003, 2006 to 2010
Rhone Poulenc

LEGEND

Sample Year

- 2010
- ⊙ 2009
- ⊕ 2008
- ⊗ 2007
- ⊗ 2006
- 2003
- 2002
- Reconnaissance

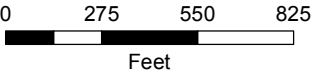
1,2-Dichlorobenzene Results (ug/L)

- < 14^x
- > 14 - 700^{xx}
- > 700 - 1,400^{xxx}
- > 1,400
- Non Detect

All Other Features

- Tax Lot
- Railroad
- Waterbody
- Watercourse

NOTES:
ug/L: microgram per liter.
The concentration for the most recent year sampled is shown. Within that year, the highest detected concentration is shown.
^x 14 ug/L is the screening level value for groundwater presented in the SS8 report.
^{xx} 700 ug/L is the approximately 0.5% of the pure phase solubility of 1,2-Dichlorobenzene in water.
^{xxx} 1,400 ug/L is the approximately 1% of the pure phase solubility of 1,2-Dichlorobenzene in water.

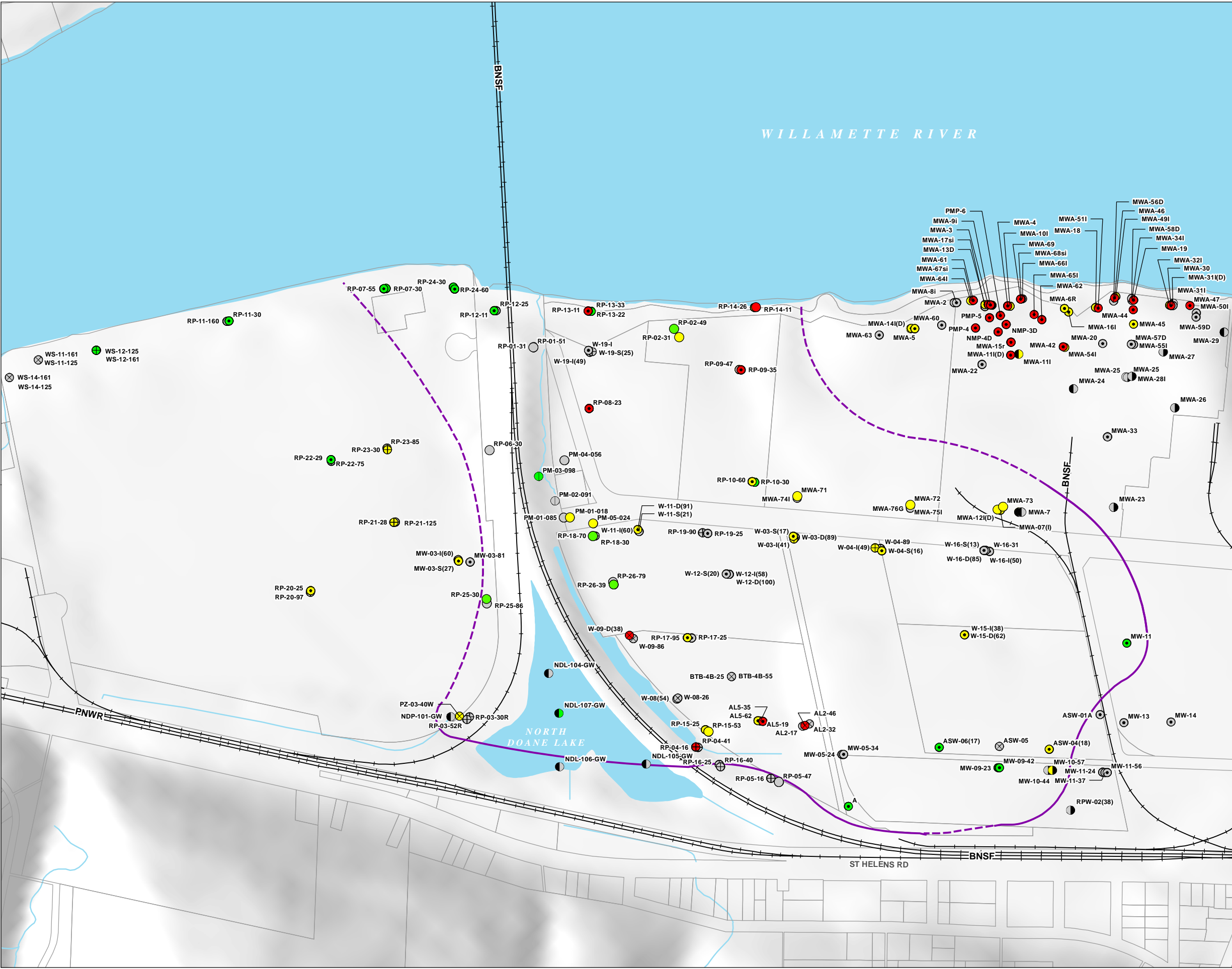


MAP NOTES:

Date: March 17, 2015
Data Sources: Rhone Poulenc, METRO
Reference: AMEC Rhone Poulenc Access
Database for Groundwater Analytical Data.



FIGURE 30i
4,4-DDD Results in Groundwater,
within Fill and Fine-Grained Alluvium
- 2002, 2003, 2006 to 2010
Rhone Poulenc



LEGEND

○ 2010
⊙ 2009
⊖ 2008
⊕ 2007
⊗ 2006
● 2003
● 2002

DDD Results (ng/L)

● < 1.0^x
● > 1.0 - 100^{xx}
● > 100
● Non Detect
- - - Extent of DDD (dashed where inferred)

All Other Features

⊕ Tax Lot
— Railroad
Waterbody
Watercourse

NOTES:
ng/L: nanogram per liter.
The concentration for the most recent year sampled is shown. Within that year, the highest detected concentration is shown.
^x 1.0 ng/L is the screening level value for groundwater presented in the SS8 report.
^{xx} 100 ng/L was selected for the range based on the data distribution.



MAP NOTES:
Date: April 6, 2015
Data Sources: Rhone Poulenc, METRO
Reference: AMEC Rhone Poulenc Access Database for Groundwater Analytical Data.





FIGURE 30j
4,4-DDD Results in Groundwater,
within Gravel and Basalt
- 2002, 2003, 2006 to 2010
Rhone Poulenc

LEGEND

○ 2010
⊙ 2009
⊖ 2008
⊕ 2007
⊗ 2006
● 2003
◐ 2002

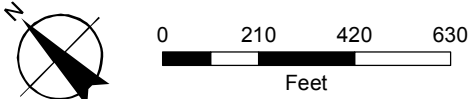
DDD Results (ng/L)

● < 1.0^x
● > 1.0 - 100^{xx}
● > 100
● Non Detect
- - - Extent of DDD (dashed where inferred)

All Other Features

⊕ Tax Lot
— Railroad
Waterbody
Watercourse

NOTES:
ng/L: nanogram per liter.
The concentration for the most recent year sampled is shown. Within that year, the highest detected concentration is shown.
^x 1.0 ng/L is the screening level value for groundwater presented in the SS8 report.
^{xx} 100 ng/L was selected for the range based on the data distribution.



MAP NOTES:
Date: March 17, 2015
Data Sources: Rhone Poulenc, METRO
Reference: AMEC Rhone Poulenc Access Database for Groundwater Analytical Data.



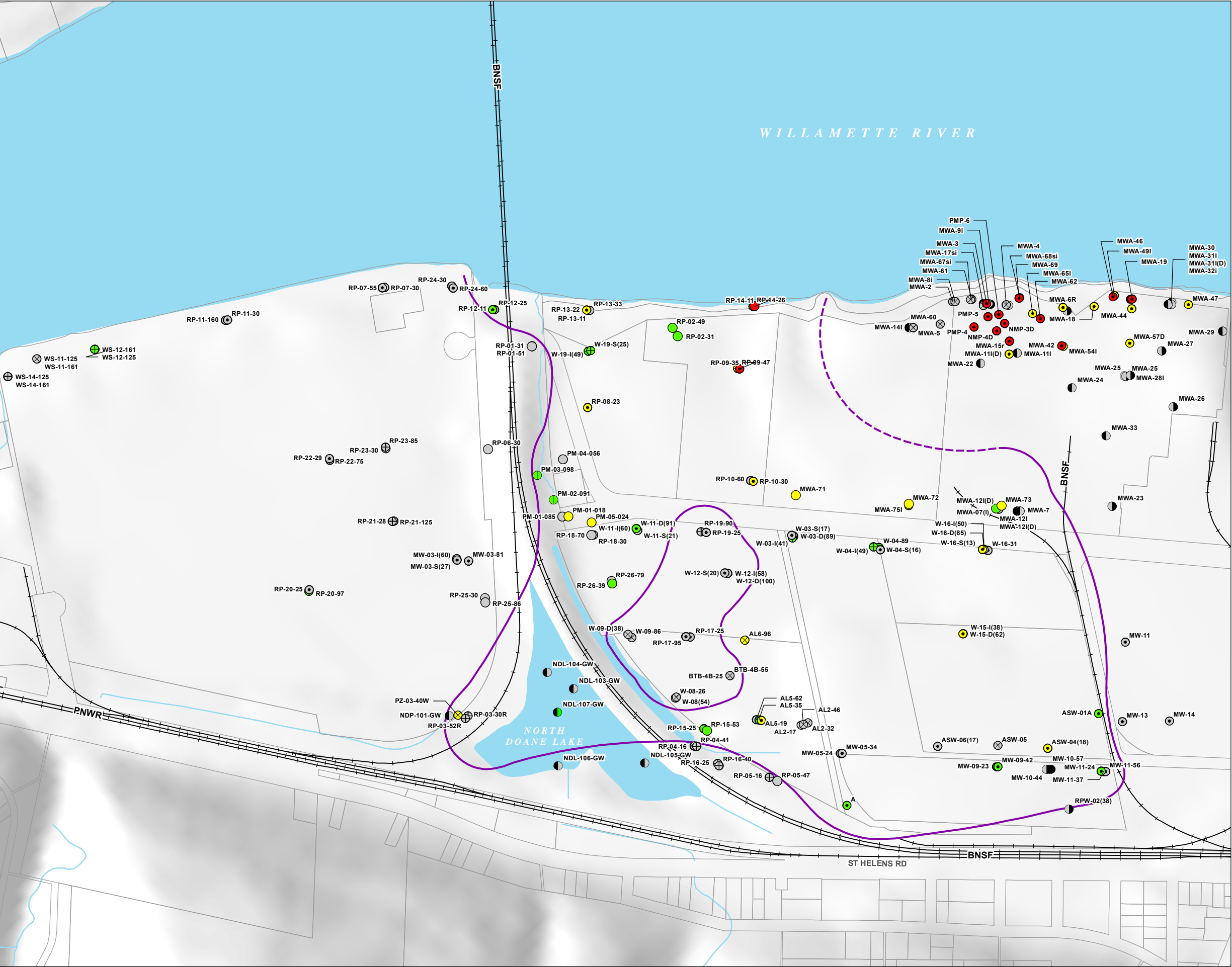


FIGURE 29i
4,4-DDE Results in Groundwater,
within Fill and Fine-Grained Alluvium
- 2002, 2003, 2006 to 2010
Rhone Poulenc

LEGEND

○ 2010
⊙ 2009
⊖ 2008
⊕ 2007
⊗ 2006
● 2003
◐ 2002

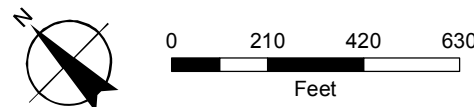
DDE Results (ng/L)

● < 1.0^x
● > 1.0 - 100^{xx}
● > 100
● Non Detect
— Extent of DDE (dashed where inferred)

All Other Features

⊕ Tax Lot
— Railroad
Waterbody
Watercourse

NOTES:
ng/L: nanogram per liter.
The concentration for the most recent year sampled is shown. Within that year, the highest detected concentration is shown.
^x 1.0 ng/L is the screening level value for groundwater presented in the SS8 report.
^{xx} 100 ng/L was selected for the range based on the data distribution.



MAP NOTES:
Date: March 17, 2015
Data Sources: Rhone Poulenc, METRO
Reference: AMEC Rhone Poulenc Access Database for Groundwater Analytical Data.





FIGURE 29j
4,4-DDE Results in Groundwater,
within Gravel and Basalt
- 2002, 2003, 2006 to 2010
Rhone Poulenc

LEGEND

○ 2010
⊙ 2009
⊖ 2008
⊕ 2007
⊗ 2006
● 2003
◐ 2002

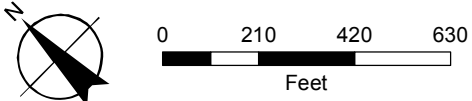
DDE Results (ng/L)

● < 1.0^x
● > 1.0 - 100^{xx}
● > 100
● Non Detect
- - - Extent of DDE (dashed where inferred)

All Other Features

⊕ Tax Lot
— Railroad
Waterbody
Watercourse

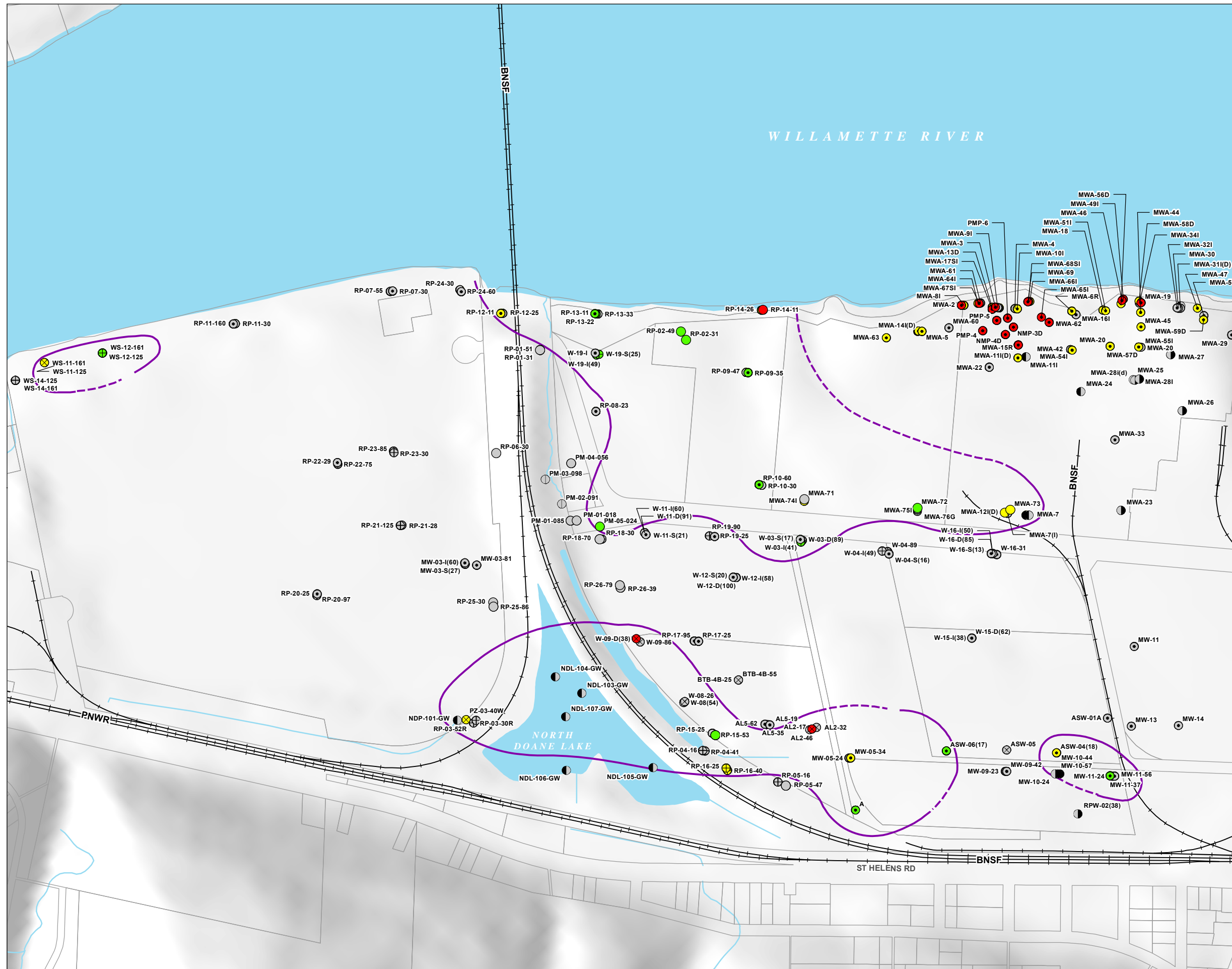
NOTES:
ng/L: nanogram per liter.
The concentration for the most recent year sampled is shown. Within that year, the highest detected concentration is shown.
^x 1.0 ng/L is the screening level value for groundwater presented in the SS8 report.
^{xx} 100 ng/L was selected for the range based on the data distribution.



MAP NOTES:
Date: March 17, 2015
Data Sources: Rhone Poulenc, METRO
Reference: AMEC Rhone Poulenc Access Database for Groundwater Analytical Data.



FIGURE 28i
4,4-DDT Results in Groundwater,
within Fill and Fine-Grained Alluvium
- 2002, 2003, 2006 to 2010
 Rhone Poulenc

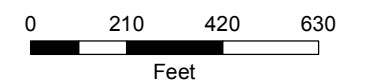


LEGEND

- 2010
- ⊙ 2009
- ⊖ 2008
- ⊕ 2007
- ⊗ 2006
- 2003
- 2002
- DDT Results (ng/L)**
- < 1.0^x
- > 1.0 - 100^{xx}
- > 100
- Non Detect
- Extent of DDT (dashed where inferred)
- All Other Features**
- ⊕ Tax Lot
- Railroad
- Waterbody
- Watercourse

NOTES:

ng/L: nanogram per liter.
 The concentration for the most recent year sampled is shown. Within that year, the highest detected concentration is shown.
^x 1.0 ng/L is the screening level value for groundwater presented in the SS8 report.
^{xx} 100 ng/L was selected for the range based on the data distribution.



MAP NOTES:

Date: March 17, 2015
 Data Sources: Rhone Poulenc, METRO
 Reference: AMEC Rhone Poulenc Access Database for Groundwater Analytical Data.





FIGURE 28j
4,4-DDT Results in Groundwater,
within Gravel and Basalt
- 2002, 2003, 2006 to 2010
Rhone Poulenc

LEGEND

○ 2010
⊙ 2009
⊖ 2008
⊕ 2007
⊗ 2006
● 2003
● 2002

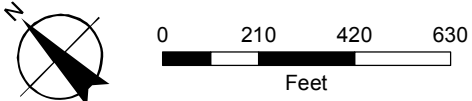
DDT Results (ng/L)

● < 1.0^x
● > 1.0 - 100^{xx}
● > 100
● Non Detect
- - - Extent of DDT (dashed where inferred)

All Other Features

⊕ Tax Lot
- - - Railroad
Waterbody
Watercourse

NOTES:
ng/L: nanogram per liter.
The concentration for the most recent year sampled is shown. Within that year, the highest detected concentration is shown.
^x 1.0 ng/L is the screening level value for groundwater presented in the SS8 report.
^{xx} 100 ng/L was selected for the range based on the data distribution.




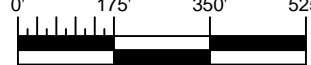

MAP NOTES:
Date: March 17, 2015
Data Sources: Rhone Poulenc, METRO
Reference: AMEC Rhone Poulenc Access Database for Groundwater Analytical Data.

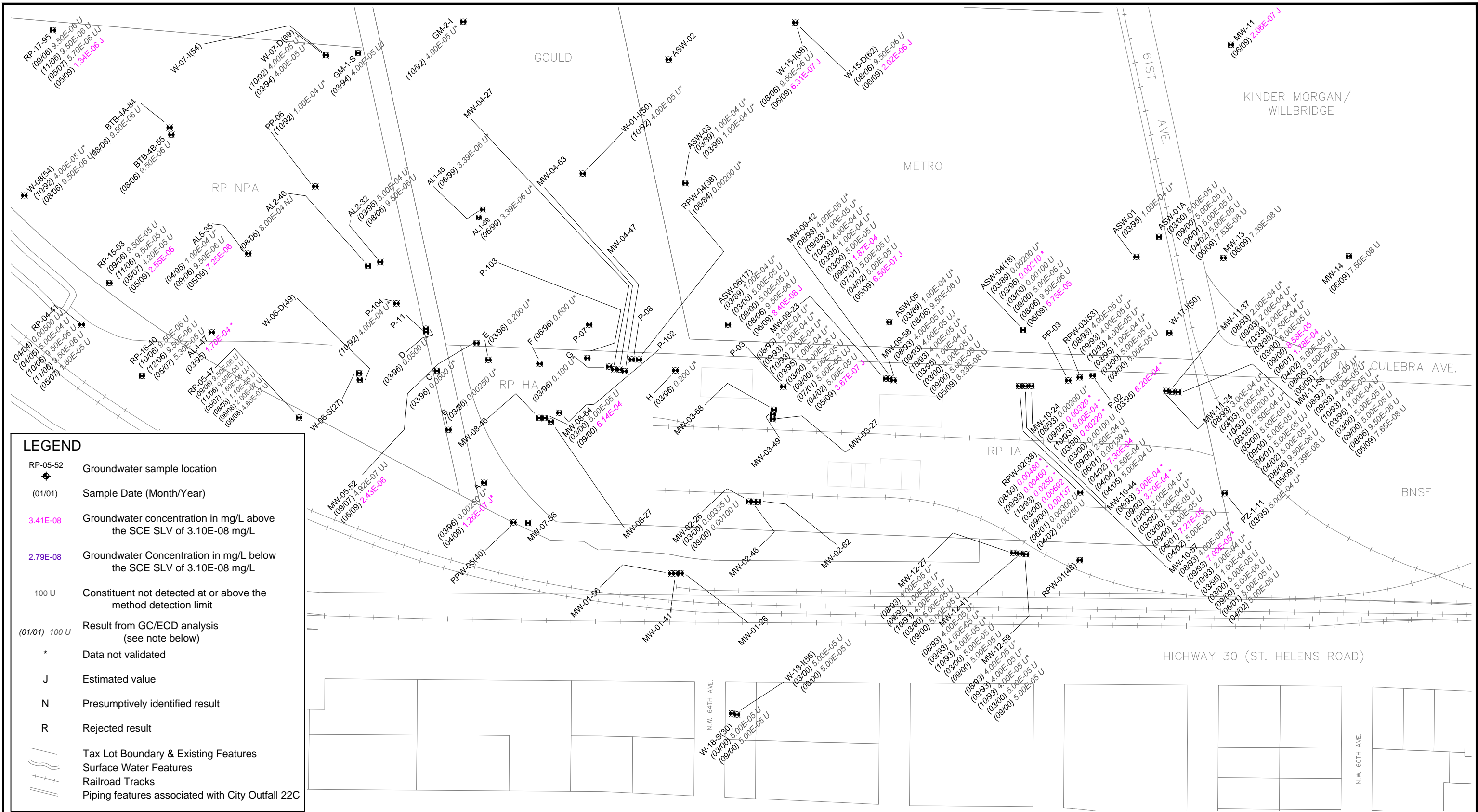




Note: Pre-2007 OCI results from GC/ECD analysis are considered potentially unreliable because GC/ECD methods are highly susceptible to matrix interference. These results must be interpreted with caution.			DRAWN BY: BRJ	TITLE: FIGURE K-157 GROUNDWATER ARTIFICIAL FILL 4,4'-DDD (mg/L) COMPARED TO SLV 1984-2010
			QC BY: -	
			DATE DRAWN: OCTOBER 2010	REPORT: RI / SCE REPORT RP - PORTLAND SITE
			DATUM / PROJECTION: NAD83 / OR SP N Int Ft	
			PROJECT NO: 061M107030.0104.002	





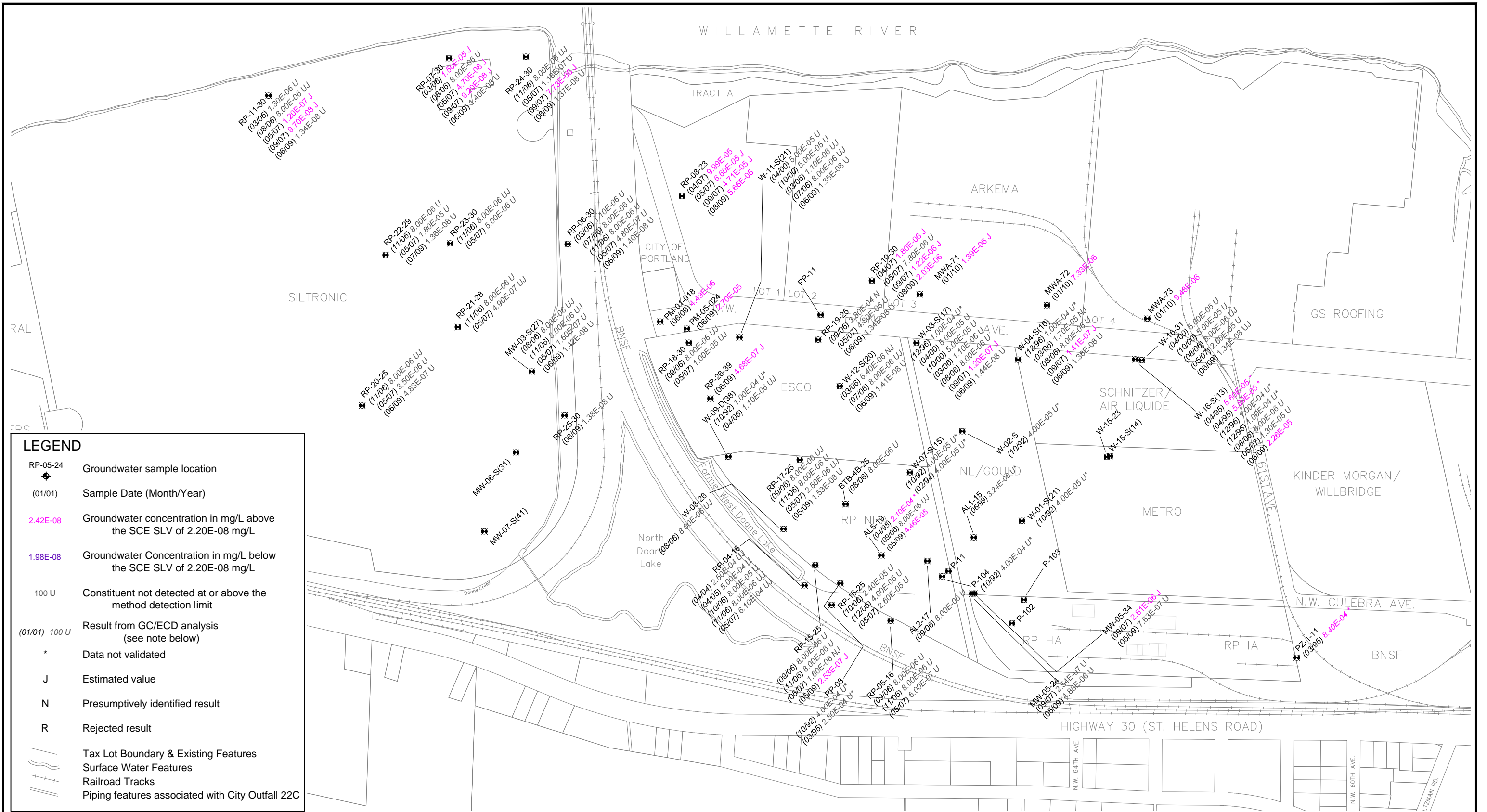
<p>Note:</p> <p>Pre-2007 OCI results from GC/ECD analysis are considered potentially unreliable because GC/ECD methods are highly susceptible to matrix interference. These results must be interpreted with caution.</p>		 	 Earth & Environmental 7376 S.W. Durham Road Portland, OR, U.S.A. 97224	DRAWN BY: BRJ	TITLE: FIGURE K-158 GROUNDWATER FINE-GRAINED ALLUVIUM 4,4'-DDD (mg/L) COMPARED TO SLV 1984-2010
				QC BY: -	
				DATE DRAWN: OCTOBER 2010	
				DATUM / PROJECTION: NAD83 / OR SP N Int Ft	
				PROJECT NO: 061M107030.0104.002	
					REPORT: RI / SCE REPORT RP - PORTLAND SITE


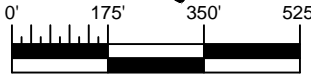



<p>Note:</p> <p>Pre-2007 OCI results from GC/ECD analysis are considered potentially unreliable because GC/ECD methods are highly susceptible to matrix interference. These results must be interpreted with caution.</p>			DRAWN BY: BRJ	TITLE: FIGURE K-159 GROUNDWATER FINE-GRAINED ALLUVIUM INSET 4,4'-DDD (mg/L) COMPARED TO SLV 1984-2010
			QC BY: -	
		Earth & Environmental 7376 S.W. Durham Road Portland, OR. U.S.A. 97224	DATE DRAWN: OCTOBER 2010	DATUM / PROJECTION: NAD83 / OR SP N Int Ft
			PROJECT NO: 061M107030.0104.002	


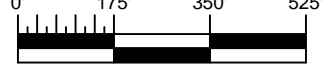



Note: Pre-2007 OCI results from GC/ECD analysis are considered potentially unreliable because GC/ECD methods are highly susceptible to matrix interference. These results must be interpreted with caution.	 0' 175' 350' 525'	 Earth & Environmental 7376 S.W. Durham Road Portland, OR, U.S.A. 97224	DRAWN BY: BRJ	TITLE: FIGURE K-160 GROUNDWATER ALLUVIAL-COLLUVIAL GRAVEL, TROUTDALE FORMATION, AND CRBG 4,4'-DDD (mg/L) COMPARED TO SLV 1984-2010
			QC BY: -	
			DATE DRAWN: OCTOBER 2010	
			DATUM / PROJECTION: NAD83 / OR SP N Int Ft	
			PROJECT NO: 061M107030.0104.002	



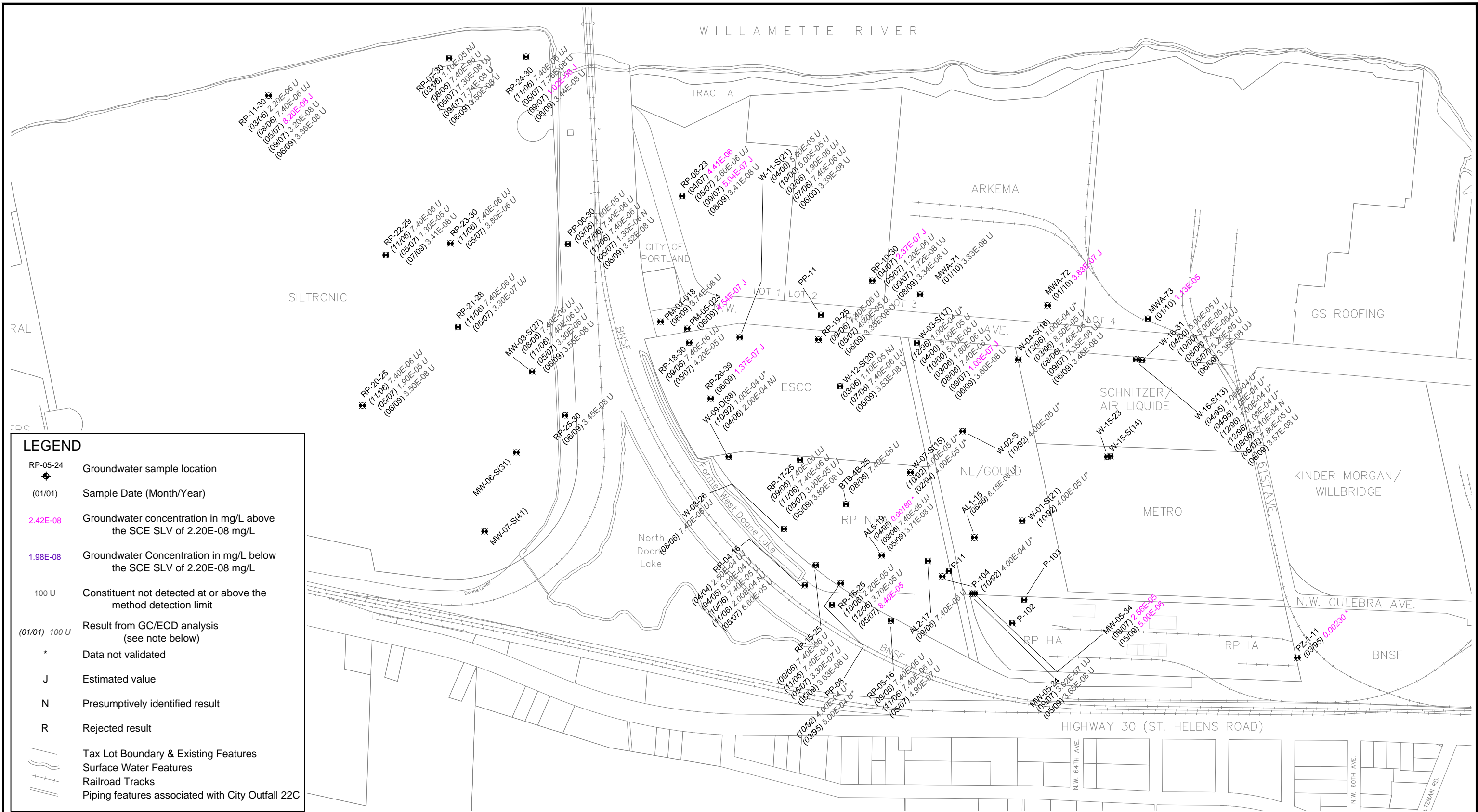
Note: Pre-2007 OCI results from GC/ECD analysis are considered potentially unreliable because GC/ECD methods are highly susceptible to matrix interference. These results must be interpreted with caution.	 	 Earth & Environmental 7376 S.W. Durham Road Portland, OR, U.S.A. 97224	DRAWN BY: BRJ	TITLE: FIGURE K-161 GROUNDWATER ARTIFICIAL FILL 4,4'-DDE (mg/L) COMPARED TO SLV 1984-2010
			QC BY: -	
			DATE DRAWN: OCTOBER 2010	
			DATUM / PROJECTION: NAD83 / OR SP N Int Ft	
			PROJECT NO: 061M107030.0104.002	



<p>Note:</p> <p>Pre-2007 OCI results from GC/ECD analysis are considered potentially unreliable because GC/ECD methods are highly susceptible to matrix interference. These results must be interpreted with caution.</p>	 	 Earth & Environmental 7376 S.W. Durham Road Portland, OR, U.S.A. 97224	DRAWN BY:	BRJ	TITLE: FIGURE K-162 GROUNDWATER FINE-GRAINED ALLUVIUM 4,4'-DDE (mg/L) COMPARED TO SLV 1984-2010
			QC BY:	-	
			DATE DRAWN:	OCTOBER 2010	
			DATUM / PROJECTION:	NAD83 / OR SP N Int Ft	
			PROJECT NO:	061M107030.0104.002	
			REPORT:		RI / SCE REPORT RP - PORTLAND SITE



Note: Pre-2007 OCI results from GC/ECD analysis are considered potentially unreliable because GC/ECD methods are highly susceptible to matrix interference. These results must be interpreted with caution.				DRAWN BY: BRJ	TITLE: FIGURE K-164 GROUNDWATER ALLUVIAL-COLLUVIAL GRAVEL, TROUTDALE FORMATION, AND CRBG 4,4'-DDE (mg/L) COMPARED TO SLV 1984-2010
				QC BY: -	
			Earth & Environmental 7376 S.W. Durham Road Portland, OR. U.S.A. 97224	DATE DRAWN: OCTOBER 2010	
				DATUM / PROJECTION: NAD83 / OR SP N Int Ft	
				PROJECT NO: 061M107030.0104.002	



Note: Pre-2007 OCI results from GC/ECD analysis are considered potentially unreliable because GC/ECD methods are highly susceptible to matrix interference. These results must be interpreted with caution.				Drawn By: BRJ	FIGURE K-165 GROUNDWATER ARTIFICIAL FILL 4,4'-DDT (mg/L) COMPARED TO SLV 1984-2010
				QC By: -	
				Date Drawn: OCTOBER 2010	Report: RI / SCE REPORT RP - PORTLAND SITE
				Datum / Projection: NAD83 / OR SP N Int Ft	
				Project No: 061M107030.0104.002	

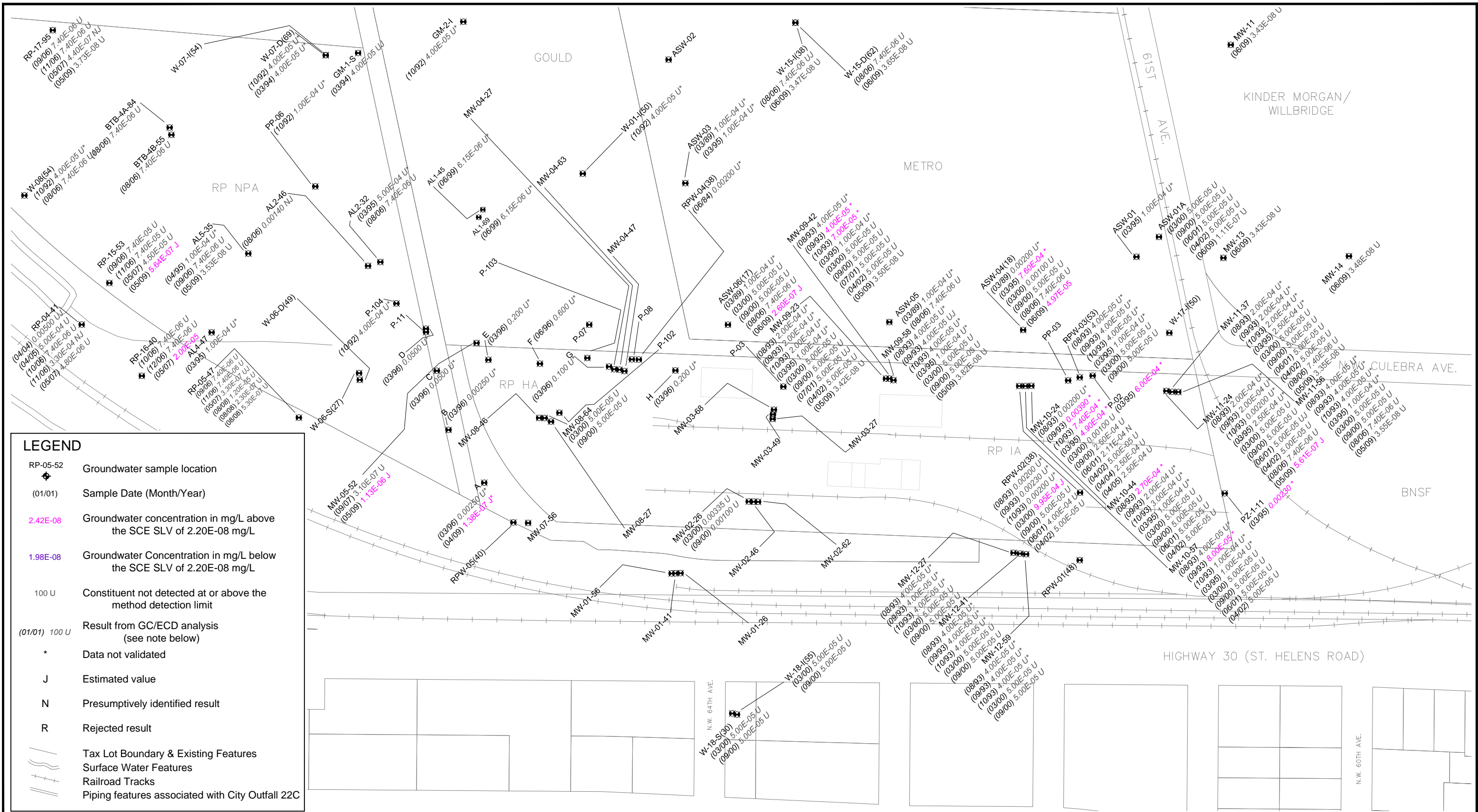


Note:
Pre-2007 OCI results from GC/ECD analysis are considered potentially unreliable because GC/ECD methods are highly susceptible to matrix interference. These results must be interpreted with caution.

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DATUM / PROJECTION:	NAD83 / OR SP N Int Ft
PROJECT NO:	061M107030.0104.002

TITLE:	FIGURE K-166 GROUNDWATER FINE-GRAINED ALLUVIUM 4,4'-DDT (mg/L) COMPARED TO SLV 1984-2010
REPORT:	RI / SCE REPORT RP - PORTLAND SITE



Note: Pre-2007 OCI results from GC/ECD analysis are considered potentially unreliable because GC/ECD methods are highly susceptible to matrix interference. These results must be interpreted with caution.				DRAWN BY: BRJ	TITLE: FIGURE K-167 GROUNDWATER FINE-GRAINED ALLUVIUM INSET 4,4'-DDT (mg/L) COMPARED TO SLV 1984-2010
				QC BY: -	
			Earth & Environmental 7376 S.W. Durham Road Portland, OR, U.S.A. 97224	DATE DRAWN: OCTOBER 2010	
				DATUM / PROJECTION: NAD83 / OR SP N Int Ft	
				PROJECT NO: 061M107030.0104.002	



LEGEND

RP-05-70

Groundwater sample location

(01/01)

Sample Date (Month/Year)

2.42E-08

Groundwater concentration in mg/L above the SCE SLV of 2.20E-08 mg/L

1.98E-08

Groundwater Concentration in mg/L below the SCE SLV of 2.20E-08 mg/L

100 U

Constituent not detected at or above the method detection limit

(01/01) 100 U

Result from GC/ECD analysis (see note below)

*

Data not validated

J

Estimated value

N

Presumptively identified result

R

Rejected result

Tax Lot Boundary & Existing Features

Surface Water Features

Railroad Tracks

Piping features associated with City Outfall 22C

Note:

Pre-2007 OCI results from GC/ECD analysis are considered potentially unreliable because GC/ECD methods are highly susceptible to matrix interference. These results must be interpreted with caution.

0'

175'

350'

525'

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Portland, OR. U.S.A. 97224

DRAWN BY:

BRJ

QC BY:

-

DATE DRAWN:

OCTOBER 2010

DATUM / PROJECTION:

NAD83 / OR SP N Int Ft

PROJECT NO:

061M107030.0104.002

TITLE:

FIGURE K-168

GROUNDWATER ALLUVIAL-COLLUVIAL GRAVEL, TROUTDALE FORMATION, AND CRBG

4,4'-DDT (mg/L) COMPARED TO SLV

1984-2010

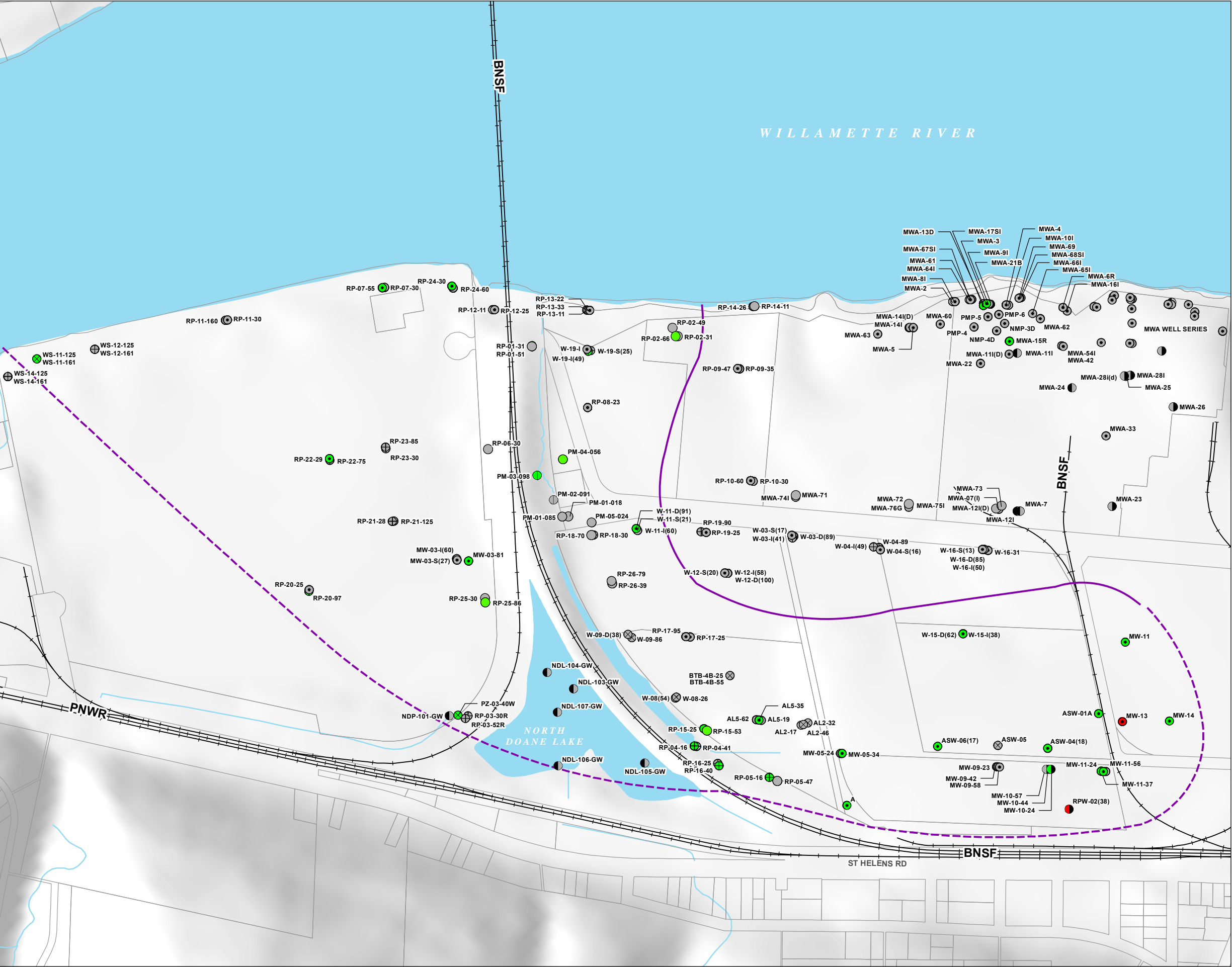
REPORT:

RI / SCE REPORT

RP - PORTLAND SITE

P:\10703\0100 RI-FS-ROD\0104 RI Report\Draft RI\Figures\dwg\data_figures\SCE\Figures K-165 to 168 GW 4,4'-DDT Compared to SLV.dwg - Data_ACG_CRBG_Troutdale - Oct. 27, 2010 10:00am - brian.johnson

FIGURE 33i
Lindane Results
in Groundwater, within Fill and Fine-Grained Alluvium - 2002, 2003, 2006 to 2010
Rhone Poulenc



LEGEND

Sample Year

- 2010
- ⊙ 2009
- ⊖ 2008
- ⊕ 2007
- ⊗ 2006
- ⊖ 2003
- ⊖ 2002

Lindane Results (ug/L)

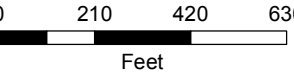
- < 2.2
- > 2.2 - 5.2
- > 5.2
- Non Detect
- Extent of Lindane (dashed where inferred)

All Other Features

- ⊕ Tax Lot
- Railroad
- Waterbody
- Watercourse

NOTES:

ug/L: microgram per liter.
The concentration for the most recent year sampled is shown. Within that year, the highest detected concentration is shown.
x 2.2 ug/L is the screening level value for groundwater presented in the SS8 report.
xx 5.2 ug/L represents a natural break in the distribution of data.



MAP NOTES:

Date: March 17, 2015
Data Sources: Rhone Poulenc, METRO
Reference: AMEC Rhone Poulenc Access Database for Groundwater Analytical Data.



FIGURE 33j
Lindane Results
in Groundwater, within Gravel
and Basalt - 2002, 2003, 2006 to 2010
Rhone Poulenc



LEGEND

Sample Year

- 2010
- ⊙ 2009
- ⊖ 2008
- ⊕ 2007
- ⊗ 2006
- 2003
- ◐ 2002

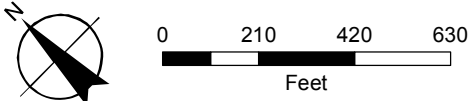
Lindane Results (ug/L)

- < 2.2^x
- > 2.2 - 5.2^{xx}
- > 5.2
- Non Detect
- Extent of Lindane (dashed where inferred)

All Other Features

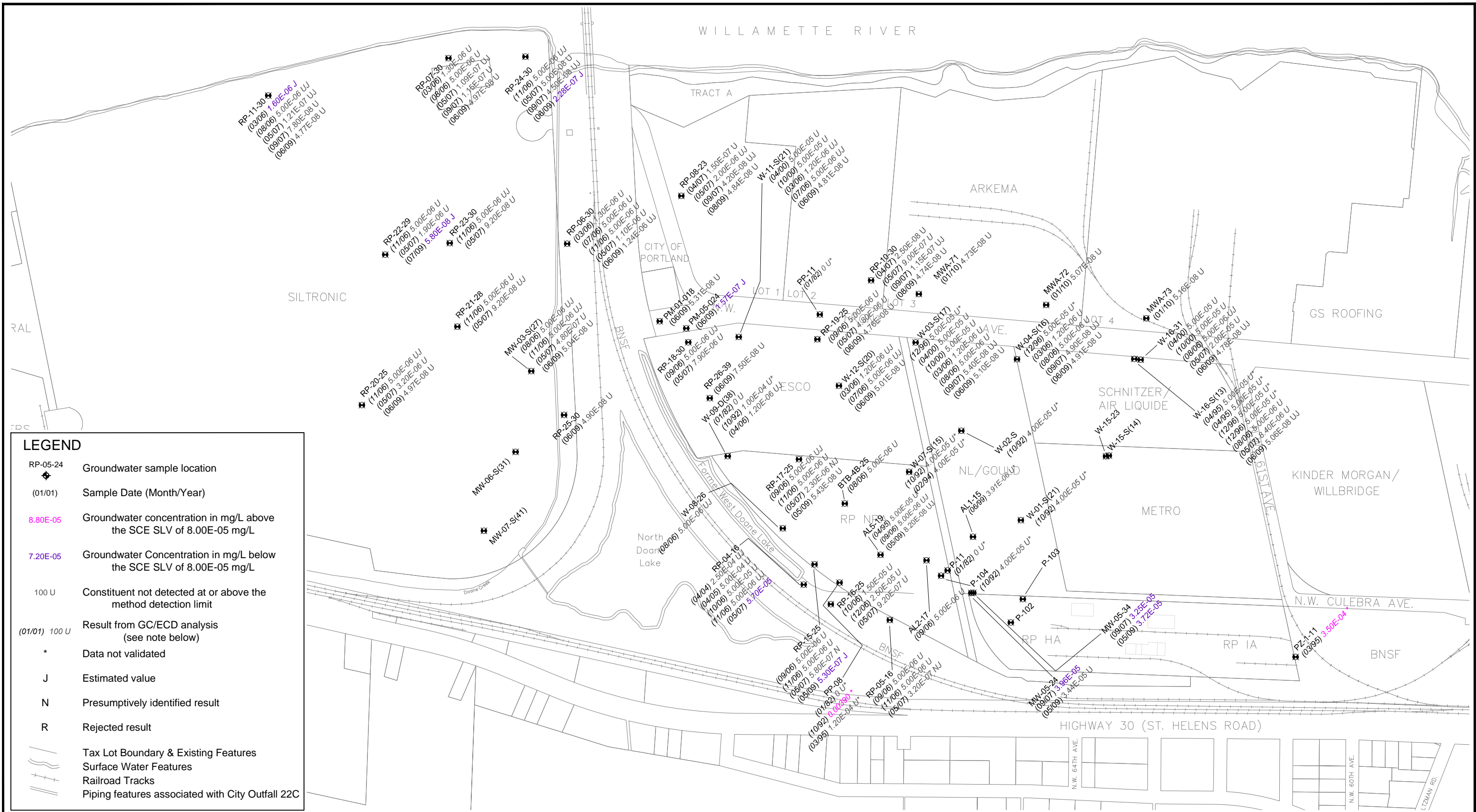
- ⊕ Tax Lot
- Railroad
- Waterbody
- Watercourse

NOTES:
ug/L: microgram per liter.
The concentration for the most recent year sampled is shown. Within that year, the highest detected concentration is shown.
^x 2.2 ug/L is the screening level value for groundwater presented in the SS8 report.
^{xx} 5.2 ug/L represents a natural break in the distribution of data.



MAP NOTES:
Date: March 17, 2015
Data Sources: Rhone Poulenc, METRO
Reference: AMEC Rhone Poulenc Access Database for Groundwater Analytical Data.

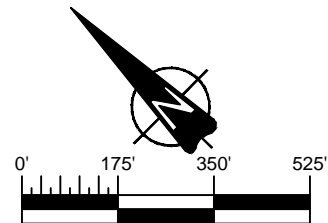




LEGEND

- RP-05-24 Groundwater sample location
- (01/01) Sample Date (Month/Year)
- 8.80E-05 Groundwater concentration in mg/L above the SCE SLV of 8.00E-05 mg/L
- 7.20E-05 Groundwater Concentration in mg/L below the SCE SLV of 8.00E-05 mg/L
- 100 U Constituent not detected at or above the method detection limit
- (01/01) 100 U Result from GC/ECD analysis (see note below)
- * Data not validated
- J Estimated value
- N Presumptively identified result
- R Rejected result
- Tax Lot Boundary & Existing Features
- Surface Water Features
- Railroad Tracks
- Piping features associated with City Outfall 22C

Note:
Pre-2007 OCI results from GC/ECD analysis are considered potentially unreliable because GC/ECD methods are highly susceptible to matrix interference. These results must be interpreted with caution.



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PROJECT NO: 061M107030.0104.002

TITLE: FIGURE K-205
GROUNDWATER ARTIFICIAL FILL
LINDANE (mg/L) COMPARED TO SLV
1982-2010

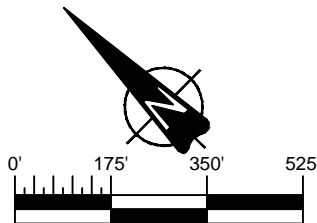
REPORT: RI / SCE REPORT
RP - PORTLAND SITE



LEGEND

- RP-06-87 Groundwater sample location
- (01/01) Sample Date (Month/Year)
- 8.80E-05 Groundwater concentration in mg/L above the SCE SLV of 8.00E-05 mg/L
- 7.20E-05 Groundwater Concentration in mg/L below the SCE SLV of 8.00E-05 mg/L
- 100 U Constituent not detected at or above the method detection limit
- (01/01) 100 U Result from GC/ECD analysis (see note below)
- * Data not validated
- J Estimated value
- N Presumptively identified result
- R Rejected result
- Tax Lot Boundary & Existing Features
- Surface Water Features
- Railroad Tracks
- Piping features associated with City Outfall 22C

Note:
Pre-2007 OCI results from GC/ECD analysis are considered potentially unreliable because GC/ECD methods are highly susceptible to matrix interference. These results must be interpreted with caution.



amec
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DATE DRAWN: OCTOBER 2010
DATUM / PROJECTION: NAD83 / OR SP N Int Ft
PROJECT NO: 061M107030.0104.002

TITLE: FIGURE K-206
GROUNDWATER FINE-GRAINED ALLUVIUM
LINDANE (mg/L) COMPARED TO SLV
1982-2010
REPORT: RI / SCE REPORT
RP - PORTLAND SITE



Note: Pre-2007 OCI results from GC/ECD analysis are considered potentially unreliable because GC/ECD methods are highly susceptible to matrix interference. These results must be interpreted with caution.				DRAWN BY: BRJ	TITLE: FIGURE K-207 GROUNDWATER FINE-GRAINED ALLUVIUM INSET LINDANE (mg/L) COMPARED TO SLV 1982-2010
				QC BY: -	
				DATE DRAWN: OCTOBER 2010	
				DATUM / PROJECTION: NAD83 / OR SP N Int Ft	
Earth & Environmental 7376 S.W. Durham Road Portland, OR. U.S.A. 97224	REPORT: RI / SCE REPORT RP - PORTLAND SITE				
	PROJECT NO: 061M107030.0104.002				



Note: Pre-2007 OCI results from GC/ECD analysis are considered potentially unreliable because GC/ECD methods are highly susceptible to matrix interference. These results must be interpreted with caution.			DRAWN BY: BRJ	TITLE: FIGURE K-208 GROUNDWATER ALLUVIAL-COLLUVIAL GRAVEL, TROUTDALE FORMATION, AND CRBG LINDANE (mg/L) COMPARED TO SLV 1982-2010
			QC BY: -	
			DATE DRAWN: OCTOBER 2010	
			DATUM / PROJECTION: NAD83 / OR SP N Int Ft	
			PROJECT NO: 061M107030.0104.002	